

1986 IUCN Red List of Threatened Animals





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**1986 IUCN RED LIST
OF THREATENED ANIMALS**

Prepared by

**The IUCN Conservation Monitoring Centre
Cambridge U.K.**

**International Union for Conservation of Nature
and Natural Resources**

1986

IUCN

IUCN (International Union for Conservation of Nature and Natural Resources) is a network of governments, nongovernmental organizations (NGOs), scientists and other conservation experts, joined together to promote the protection and sustainable use of living resources

Founded in 1948, IUCN has more than 500 member governments and NGOs in over 116 countries. Its six Commissions consist of more than 2000 experts on threatened species, protected areas, ecology, environmental planning, environmental policy, law and administration, and environmental education.

IUCN monitors the status of ecosystems and species throughout the world; plans conservation action, both at strategic level through the World Conservation Strategy and at the programme level through its programme of conservation for sustainable development; promotes such action by governments, inter-governmental bodies and nongovernmental organisations; and provides the assistance and advice necessary to achieve such action.

THE IUCN CONSERVATION MONITORING CENTRE is the division of the Union that provides a data service to IUCN and to the conservation and development community. CMC is building an integrated and cross-referenced database on animals and plants of conservation concern, on wildlife trade, and on ecosystems (principally protected areas so far). The CMC produces a wide variety of specialist outputs and analyses, as well as major publications such as Red Data Books and Protected Area Directories. Other IUCN Centres focus on Environmental Law, and Conservation for Development. Collectively this information and expertise is used to assist IUCN members to prepare conservation programmes, and to provide information and advice to the conservation and development communities. Should you wish to consult these services please contact the:

IUCN Secretariat, World Conservation Centre
Ave du Mont Blanc, CH-1196 Gland, Switzerland

The designations of geographical entities in this book, and the presentation of the material, do not imply the expression of any opinion whatsoever on the part of IUCN concerning the legal status of any country, territory, or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

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PREAMBLE

The strength of the species conservation argument is dependent on the scientific knowledge available, and the Red Data Books provide us all with a tool to be used for a restricted number of well known species or cases.

It is hoped, with this Threatened Species List, that the huge hidden information base held at the IUCN Conservation Monitoring Centre may be exposed to a wider audience. There is, of course, an inherent problem with any data base of any quality and size; everybody wants access to it instantly, but the reality is that all this hard won information has got to be distilled, manipulated and reproduced in a particular format for any user.

This takes time and time is money, so by exposing the data base one is apparently issuing an invitation to use it, whereas I think we should all be aware that to use it means we have to find the money to pay for its use. It cannot be provided for free!

The great skills of the staff and the huge network of specialists from which the data is acquired, many of whom are members of the Specialist Groups of the Species Survival Commission, are actually worth paying for, painful as this concept might be.

It was with great pleasure that World Wildlife Fund UK agreed to pay for the publication of this species list, to show what the data base holds and, to show the status of the species held, which in itself is of value to a whole range of users.

As one reviews, during this 25th Anniversary Year of the World Wildlife Fund, what has been accomplished in species conservation, it must be said that whilst we have done well in creating an extensive information base, we are sadly still very far away from being in a position to have plans and programmes to ensure the wise management of all these threatened species. Our success in the field and 'in captivity' sometimes obscures this reality!

The reality, in fact, shows the need for greater and more vigorous action but, having said this, I believe we should congratulate the team at the Conservation Monitoring Centre for their sterling effort in the battle for species conservation.

Grenville Ll. Lucas,

Chairman,
Species Survival Commission, IUCN

28th August, 1986

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Introduction

IUCN has long been known for the compilation of a series of Red Data Books, authoritative international inventories of threatened species. In recent years the Red Data Books have changed in format from the original loose-leaf style which allowed for frequent update of species accounts, to that of bound volumes. In addition, some books have become regional rather than global in approach, e.g. *Threatened Birds of Africa and Related Islands*. As a result, a list of internationally threatened species has not been readily available from IUCN for some years. This publication has been prepared in response to the increasing demand for such a list, from scientists, educationalists, zoos, the media, and conservation organisations. It is intended that new editions of the list will be published periodically.

The Red Data Book concept, originated by Sir Peter Scott in the mid-1960s, aimed to focus attention on the plight of the earth's vanishing wildlife. The concept has been immensely successful and, two decades later, many national and regional Red Data Books have been published; and many more countries are in the process of compiling their own threatened species lists. National and regional compilations are always likely to be more detailed than the international overview provided by IUCN. Increasingly therefore, IUCN's role will be to provide pointers to the availability of such data sources. Where these exist, IUCN will not duplicate the detailed information they contain, but will list any identified globally threatened taxa on its international list. For example, Australia has in recent years produced several texts detailing the status of its native species. IUCN will include all the relevant threatened Australian species on the international list but will not give high priority to the compilation of detailed data sheets for Australian taxa.

The next generation of Red Data Books prepared by IUCN will thus tend to be shorter, more specific publications highlighting the conservation problems of a group of species, perhaps even a single species, or an area. Such shorter compilations will allow for faster dissemination of conservation data, and will be more responsive to the changing priorities and needs of conservation. Complementing these, the periodic publication of the IUCN list of internationally threatened species will provide an index to the species data held by IUCN.

IUCN's threatened species list is compiled and maintained by the IUCN Conservation Monitoring Centre. For each threatened taxon, the list provides the scientific name, English vernacular name (where known), IUCN category (for definitions see page ix), and a brief description of the animal's distribution. This is followed by an index to the list based on the order, family and generic listing. Vernacular names for major groupings such as monkeys, parrots, and butterflies are also included.

Data upon which the listings are made are gathered from literature searches, and from correspondence with specialists around the world, including those belonging to the Specialist Groups of IUCN's Species Survival Commission.

The number of threatened animal taxa identified by IUCN is 3117, comprised of 385 mammals, 428 birds, 143 reptiles, 46 amphibians, 286 fishes, and 1829 invertebrates. These numbers, however, represent only those taxa whose threatened status has been brought to the attention of IUCN; many, many more taxa, particularly invertebrates are threatened, and going extinct every year unbeknownst to the scientific and conservation communities. Thus the number of threatened taxa identified by IUCN represents only the visible fraction of a much greater problem. The vertebrate listings are based almost entirely on the IUCN Red Data Books. For invertebrates, however, it must be stressed that the list is only provisional, since most species have not yet been subjected to the same review process as has been carried out for the vertebrate groups, apart from those listed in the IUCN Invertebrate Red Data Book and Swallowtail Butterfly Red Data Book. Other invertebrate listings have been taken from correspondence and a number of published sources (noted on page vii).

The threatened species list is constantly under review; as new areas or species groups are surveyed, species may be listed or delisted or categories may change. Since at any one time work is focused on a particular group of species, some parts of the list are more up to date than others. For example, a review of the conservation status of the birds of Africa and related islands was undertaken by IUCN and ICBP (the International Council for Bird Preservation) between 1982 and 1985, leading to the publication of the Bird Red Data Book for Africa. Work is now in progress to assess the conservation status of the birds of the Americas. Information on Asian birds has not therefore been reviewed for some time (although files and correspondence are maintained), and so changes are undoubtedly required.

The need for new information is thus continuous and assistance in providing accurate data always welcome. An inventory report form is detailed on page v and is a guide to the information required by IUCN to assess the international conservation status of a species.

The present list undoubtedly includes a number of errors and omissions, but it is to be hoped that these will stimulate people to send new information to:-

The Species Conservation Monitoring Unit
IUCN Conservation Monitoring Centre
219c Huntingdon Road
Cambridge CB3 0DL
United Kingdom

INVENTORY REPORT FORM

Report to be mailed to SCMU, IUCN Conservation Monitoring Centre, 219(c) Huntingdon Rd, Cambridge, CB3 0DL, U.K.

1. Country

2. Date

3. Reporter Name:

Address:

4. Taxon

Scientific Name:

Common Name:

5. Distribution

Present:

Former:

If possible, please include a map. Is present range preferred or enforced habitat?

6. Population

Estimated numbers in the wild. Indicate date of estimate and describe method of estimation. Are numbers increasing, decreasing or stable?

7. Habitat and Ecology

Biome type. Elevation range. Brief notes about social structure, feeding habits and diet, reproduction (gestation, breeding season, number of young, age of sexual maturation), longevity etc.

8. Scientific interest and potential value

Use in scientific or medical research; commercial value in trade or local economy.

9. Threats to Survival

Eg. habitat destruction, over-exploitation, hybridization, natural disasters, competition for food.

10. Conservation Measures Taken

Legal measures (international conventions, national laws); is law enforced? Protected areas - does it occur in national parks, reserves etc.? If so, please list. Management programmes or research programmes in progress.

11. Conservation Measures Proposed

Same as for 10, but measures that are needed for the conservation of the taxon.

12. Captive Breeding

Numbers in captivity. Does it breed readily in captivity? Where and when?

13. Remarks

Reference citations for description of animal. Comments about related taxa. If the above information concerns a subspecies then brief information should be given about the distribution and status of the species as a whole. Special acknowledgements etc.

14. References

Can be published papers, unpublished manuscripts, or references to correspondence (cited as In litt.).

DOCUMENTS ON WHICH THE IUCN RED LIST IS BASED

The asterisk indicates books currently available from IUCN.

Mammals

Goodwin, H.A. and Holloway, C.W. (1972). Red Data Book, Vol. 1 - Mammalia. Second Edition. IUCN, Morges. (Revisions: 1973 and 1974 by Goodwin, H.A. and Holloway, C.W.; 1976 by Fitter, R.S.R. and Holloway, C.W.; 1978 by Thornback, J.). Thornback, J. and Jenkins, M. (1982). Terrestrial Mammals. Part VII. In: Threatened Species of Wild Flora and Vertebrate Fauna. Report to the Commission of the European Communities. The Nature Conservancy Council, Great Britain.

Thornback, J. (1984). Wild Cattle, Bison and Buffaloes; their status and potential value. Report to UNEP. IUCN Conservation Monitoring Centre.

*Thornback, J. and Jenkins, M. (1982). The IUCN Mammal Red Data Book. Part 1. The Americas and Australasia. IUCN, Gland.

Birds

King, W.B. (1981). Endangered Birds of the World. The ICBP Bird Red Data Book. Smithsonian Institution Press and ICBP, Washington D.C.

*Collar, N.J. and Stuart, S.N. (1985). Threatened Birds of Africa and Related Islands. The ICBP/IUCN Red Data Book, Part 1. Third Edition. ICBP and IUCN, Cambridge.

Amphibians and Reptiles

*Groombridge, B. (1982). The IUCN Amphibia-Reptilia Red Data Book. Part 1, Testudines, Crocodylia, Rhynchocephalia. IUCN, Gland.

Groombridge, B. (1982). Amphibians and Reptiles. Part IV. In: Threatened Species of Wild Flora and Vertebrate Fauna. Report to the Commission of the European Communities. The Nature Conservancy Council, Great Britain.

Honneger, R. (1975/1979). Red Data Book, Vol. 3 - Amphibia and Reptilia. Second Edition. IUCN, Gland.

Fishes

*Evans, D. (1981). Threatened Fish of Sri Lanka. IUCN Conservation Monitoring Centre, Cambridge.

Evans, D. and Almada-Villela, P. (Unpublished). Threatened Fishes of North America. Draft Document. IUCN Conservation Monitoring Centre.

Miller, R.R. (1977). Red Data Book, Vol. 4 - Pisces. Second Edition. IUCN, Morges.

U.S. Department of the Interior (1986). Endangered and Threatened Wildlife and Plants. Federal Register 50 CFR 17.11 and 17.12: 1-30

Invertebrates

*Collins, N.M. and Morris, M.G. (1985). Threatened Swallowtail Butterflies of the World. The IUCN Red Data Book. IUCN, Gland and Cambridge.

Collins, N.M. and Wells, S.M. (1986). Insects and other Invertebrates as Candidates for the Berne Convention. A Report to the Council of Europe. IUCN Conservation Monitoring Centre.

U.S. Department of the Interior. (1984). Endangered and Threatened Wildlife and Plants; Review of Invertebrate Wildlife for Listing as Endangered or Threatened Species. Federal Register 49(100): 21664-21675.

*Wells, S.M., Pyle, R.M. and Collins, N.M. (1983). The IUCN Invertebrate Red Data Book. IUCN, Gland.

TAXONOMY

The systems of classification and nomenclature principally follow the undermentioned authors.

Mammals

Cabrera, A. (1957-61). Catalogo de los mamiferos de America del Sur. Rev. del Mus. Argent. de Cienc. Nat. 'Bernardino Rivadavia' Cienc. Zool. 4(1,2): 1-732.

Corbet, G.B. and Hill, J.E. (1980). A World List of Mammalian Species. British Museum (Natural History) and Cornell University Press.

Hall, E.R. and Kelson, K.R. (1959). The Mammals of North America. Ronald Press Co., New York.

Honacki, J.H., Kinman, K.E. and Koepl, J.W. (1982). Mammal Species of the World: a taxonomic and geographic reference. Allen Press Inc. and the Association of Systematics Collections, Kansas.

Meester, J. and Setzer, H.W. (Eds) (1971). The Mammals of Africa: an Identification Manual. Smithsonian Institution Press, City of Washington.

Ride, W.D.L. (1970). A Guide to the Native Mammals of Australia. Oxford University Press, Melbourne.

Birds

Morony, J.J., Bock, W.J. and Farrand, J. (1975). Reference List of the Birds of the World. American Museum of Natural History, New York.

Reptiles

Groombridge, B. (1983). World Checklist of Threatened Amphibians and Reptiles. Third Edition. Nature Conservancy Council, London.

Pritchard, P.C.H. (1979). Encyclopaedia of Turtles. T.F.H. Publications, New Jersey and Hong Kong.

Wermuth, H. and Mertens, R. (1977). Testudines, Crocodylia, Rhynchocephalia. Das Tierreich 100: 1-174.

Amphibians

Groombridge, B. (1983). World Checklist of Threatened Amphibians and Reptiles. Third Edition. Nature Conservancy Council, London.

Fishes

Nelson, J.S. (1984). Fishes of the World. Second Edition. John Wiley and Sons, New York, Chichester, Brisbane, Toronto, Singapore.

Robins, C.R., Bailey, R.M., Bond, C.E., Brooker, J.R., Lachner, E.A., Lea, R.N., Scott, W.B. (1980). A List of Common and Scientific Names of Fishes from the United States and Canada. Fourth Edition. American Fisheries Society Special Publication No. 12.

Invertebrates

Hancock, D.L. (1983). Classification of the Papilionidae (Lepidoptera): a phylogenetic approach. Smithersia 2: 1-48.

Parker, S.B. (1982). Synopsis and Classification of Living Organisms. McGraw-Hill, New York.

IUCN THREATENED SPECIES CATEGORIES

Species identified as threatened by IUCN are assigned a category indicating the degree of threat. Definitions are as follows:

EXTINCT (Ex)

Species not definitely located in the wild during the past 50 years (criterion as used by the Convention on International Trade in Endangered Species of Wild Fauna and Flora).

N.B. On a few occasions, the category Ex? has been assigned; this denotes that it is virtually certain that the taxon has recently become extinct.

ENDANGERED (E)

Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating.

Included are taxa whose numbers have been reduced to a critical level or whose habitats have been so drastically reduced that they are deemed to be in immediate danger of extinction. Also included are taxa that may be extinct but have definitely been seen in the wild in the past 50 years.

VULNERABLE (V)

Taxa believed likely to move into the 'Endangered' category in the near future if the causal factors continue operating.

Included are taxa of which most or all the populations are decreasing because of over-exploitation, extensive destruction of habitat or other environmental disturbance; taxa with populations that have been seriously depleted and whose ultimate security has not yet been assured; and taxa with populations that are still abundant but are under threat from severe adverse factors throughout their range.

N.B. In practice, 'Endangered' and 'Vulnerable' categories may include, temporarily, taxa whose populations are beginning to recover as a result of remedial action, but whose recovery is insufficient to justify their transfer to another category.

RARE (R)

Taxa with small world populations that are not at present 'Endangered' or 'Vulnerable', but are at risk.

These taxa are usually localised within restricted geographical areas or habitats or are thinly scattered over a more extensive range.

INDETERMINATE (I)

Taxa known to be 'Endangered', 'Vulnerable' or 'Rare' but where there is not enough information to say which of the three categories is appropriate.

INSUFFICIENTLY KNOWN (K)

Taxa that are suspected but not definitely known to belong to any of the above categories, because of lack of information.

THREATENED (T)

Threatened is a general term to denote species which are 'Endangered', 'Vulnerable', 'Rare', 'Indeterminate', or 'Insufficiently Known' and should not be confused with the use of the same term by the U.S. Office of Endangered Species. In this volume it is used to identify taxa comprised of several sub-taxa which have differing status categories.

COMMERCIALLY THREATENED (CT)

Taxa not currently threatened with extinction, but most or all of whose populations are threatened as a sustainable commercial resource, or will become so, unless their exploitation is regulated.

This category applies only to taxa whose populations are assumed to be relatively large.

N.B. In practise, this category has only been used for marine species of commercial importance that are being overfished in several parts of their ranges.

ABBREVIATIONS

Arch.	Archipelago
Eq. Guinea	Equatorial Guinea
F.R.G.	Federal Republic of Germany
I.	Island
Is	Islands
O.	Ocean
sp.	Unnamed species
U.A.E.	United Arab Emirates
U.K.	United Kingdom
U.S.A.	United States of America
U.S.S.R.	Union of Soviet Socialist Republics
[]	Former Distribution
*	An important, introduced population

**1986 IUCN RED LIST
OF THREATENED SPECIES**

Phylum CHORDATA

CLASS MAMMALIA

Order MONOTREMATA

Family Tachyglossidae

Zaglossus bruijnii

V New Guinea

Long-beaked Echidna

Order MARSUPIALIA

Family Macropodidae

Bettongia lesueur

Bettongia penicillata

Caloprymnus campestris

Dendrolagus dorianus notatus

Dendrolagus goodfellowi shawmayeri

Dorcopsis atrata

Dorcopsulus macleayi

Lagorchestes asomatus

Lagorchestes hirsutus

Lagorchestes leporides

Lagostrophus fasciatus

Macropus greyi

Onychogalea fraenata

Onychogalea lunata

Petrogale sp. nov.

Potorous longipes

Potorous platyops

Burrowing Bettong
Brush-tailed Bettong
Desert Rat-kangaroo
Doria's Tree-kangaroo
Goodfellow's Tree-kangaroo
Black Dorcopsis Wallaby
Papuan Dorcopsis
Central Hare-wallaby
Rufous Hare-wallaby
Eastern Hare-wallaby
Banded Hare-wallaby
Toolache Wallaby
Bridled Nailtail Wallaby
Crescent Nailtail Wallaby
Proserpine Rock-wallaby
Long-footed Potoroo
Broad-faced Potoroo

R Australia
E Australia
I Australia
V New Guinea
V Papua New Guinea
R Papua New Guinea
R Papua New Guinea
Ex [Australia]
R Australia
Ex [Australia]
R Australia
Ex [Australia]
E Australia
Ex [Australia]
R Australia
I Australia
Ex [Australia]

Family Phalangeridae

Phalanger interpositus

Phalanger tullulalae

Phalanger rufoniger

Stein's Cuscus
Woodlark Island Cuscus
Black-spotted Cuscus

R New Guinea
R Papua New Guinea
R New Guinea

Family Petauridae

Gymnobelideus leadbeateri

Leadbeater's Possum

E Australia

Family Vombatidae

Lasiorchinus krefftii

Northern Hairy-nosed Wombat

E Australia

Family Peramelidae

- Chaeropus ecaudatus
- Echymipera clara
- Perameles bougainville
- Perameles eremiana

Family Thylacomyidae

- Macrotis lagotis
- Macrotis leucura

Family Dasyuridae

- Antechinus apicalis
- Phascogale calura
- Sminthopsis douglasi
- Sminthopsis longicaudata
- Sminthopsis psammophila

Family Myrmecobiidae

- Myrmecobius fasciatus

Family Thylacinidae

- Thylacinus cynocephalus

Order INSECTIVORA

Family Solenodontidae

- Solenodon cubanus
- Solenodon paradoxus

Family Chrysochloridae

- Amblysomus julianae
- Chrysospalax trevelyani

Family Erinaceidae

- Podogymnura truei

Family Talpidae

- Desmana moschata
- Galemys pyrenaicus

Family Soricidae

- Crocidura maquassiensis

- Pig-footed Bandicoot
- White-lipped Bandicoot
- Western Barred Bandicoot
- Desert Bandicoot

- Greater Bilby
- Lesser Bilby

- Dibbler
- Red-tailed Phascogale
- Julia Creek Dunnart
- Long-tailed Dunnart
- Sandhill Dunnart

- Numbat

- Thylacine

- Cuban Solenodon
- Haitian Solenodon

- Juliana's Golden Mole
- Giant Golden Mole

- Mindanao Gymnure

- Russian Desman
- Pyrenean Desman

- Maquassie Musk Shrew

- Ex [Australia]
- R New Guinea
- R Australia
- Ex [Australia]

- E Australia
- Ex [Australia]

- I Australia
- I Australia
- I Australia
- K Australia
- K Australia

- E Australia

- Ex [Australia]

- E Cuba
- E Hispaniola

- R South Africa
- E South Africa

- V Philippines

- V U.S.S.R.
- V France, Portugal, Spain

- R South Africa, Zimbabwe

Order CHIROPTERA

Family Pteropodidae

- Pteropus mariannus
- Pteropus niger
- Pteropus rodricensis
- Pteropus tokudae

- Marianas Flying Fox
- Mauritian Flying Fox
- Rodrigues Flying Fox
- Guam Flying Fox

- V Marianas
- R Mauritius
- E Rodrigues
- E Guam

Family Craseonycteridae

- Craseonycteris thonglongyai

- Kitti's Hog-nosed Bat

- K Thailand

Family Megadermatidae

- Macroderma gigas

- Ghost Bat

- V Australia

Family Rhinolophidae

- Hipposideros ridleyi

- Singapore Roundleaf Horseshoe Bat

- E Singapore, Peninsula Malaysia

Family Vespertilionidae

- Lasiurus cinereus semotus
- Myotis grisescens
- Myotis sodalis
- Plecotus townsendii ingens
- Plecotus townsendii virginianus

- Hawaiian Hoary Bat
- Grey Bat
- Indiana Bat
- Ozark Big-eared Bat
- Virginia Big-eared Bat

- I U.S.A.
- E U.S.A.
- V U.S.A.
- I U.S.A.
- E U.S.A.

Order PRIMATES

Family Lemuridae

- Hapalemur griseus
- Hapalemur simus
- Lemur catta
- Lemur coronatus
- Lemur macaco flavifrons
- Lemur macaco macaco
- Lemur mongoz
- Lemur rubriventer
- Lepilemur dorsalis
- Lepilemur edwardsi
- Lepilemur leucopus
- Lepilemur microdon
- Lepilemur mustelinus
- Lepilemur ruficaudatus
- Lepilemur septentrionalis
- Varecia variegata

- Grey Gentle Lemur
 - Broad-nosed Gentle Lemur
 - Ring-tailed Lemur
 - Crowned Lemur
 - Sclater's Lemur
 - Black Lemur
 - Mongoose Lemur
 - Red-bellied Lemur
 - Grey-backed Sportive Lemur
 - Milne-Edwards' Sportive Lemur
 - White-footed Sportive Lemur
 - Microdon (?) Sportive Lemur
 - Weasel Lemur
 - Red-tailed Sportive Lemur
 - Northern Sportive Lemur
 - Ruffed Lemur
- K Madagascar
 - E Madagascar
 - K Madagascar
 - K Madagascar
 - E Madagascar
 - V Madagascar
 - V Madagascar, Comoro Is
 - I Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - K Madagascar
 - I Madagascar

Family Cheirogaleidae

- Allocebus trichotis
- Microcebus coquereli
- Phaner furcifer

Hairy-eared Dwarf Lemur
Coquerel's Dwarf Lemur
Fork-marked Lemur

E Madagascar
K Madagascar
K Madagascar

Family Indridae

- Avahi laniger
- Indri indri
- Propithecus diadema
- Propithecus verreauxi

Woolly Lemur
Indris
Diademed Sifaka
Verreaux's Sifaka

K Madagascar
E Madagascar
V Madagascar
K Madagascar

Family Daubentonidae

- Daubentonia madagascariensis

Aye-aye

E Madagascar

Family Tarsiidae

- Tarsius bancanus borneanus
- Tarsius syrichta

Bornean Tarsier
Philippine Tarsier

I Borneo
E Philippines

Family Cebidae

- Alouatta fusca
- Alouatta villosa
- Ateles belzebuth
- Ateles fusciceps
- Ateles geoffroyi
- Ateles paniscus
- Brachyteles arachnoides
- Cacajao calvus
- Cacajao melanocephalus
- Callicebus personatus
- Chiropotes albinasus
- Chiropotes satanas satanas
- Lagothrix flavicauda
- Lagothrix lagothricha
- Saimiri oerstedii

Brown Howler Monkey
Guatemalan Black Howler Monkey
Long-haired Spider Monkey
Brown-headed Spider Monkey
Geoffroy's Spider Monkey
Black Spider Monkey
Woolly Spider Monkey
Red & White Uakari
Black-headed Uakari
Masked Titi
White-nosed Saki
Southern Bearded Saki
Yellow-tailed Woolly Monkey
Woolly Monkey
Central American Squirrel Monkey

I Bolivia, Brazil
I Belize, Guatemala, Mexico
V South America
I Colombia, Ecuador, Panama
V Central America, Mexico
V South America
E Brazil
V Brazil, Colombia, Peru
V Brazil, Colombia, Venezuela
V Brazil
V Brazil
E Brazil
E Ecuador, Peru
V South America
E Costa Rica, Panama

Family Callitrichidae

- Callimico goeldii
- Callithrix argentata leucippe
- Callithrix aurita
- Callithrix flaviceps
- Callithrix humeralifer

Goeldi's Marmoset
White Marmoset
Buffy-tufted-ear Marmoset
Buffy-headed Marmoset
Tassel-eared Marmoset

R South America
V Brazil
E Brazil
E Brazil
V Brazil

Leontopithecus rosalia
Leontopithecus chrysomelas
Leontopithecus chrysopygus
Saguinus bicolor
Saguinus imperator
Saguinus leucopus
Saguinus oedipus oedipus

Family Cercopithecidae

Allenopithecus nigroviridis
Cercocebus aterrimus
Cercocebus galeritus galeritus
Cercocebus torquatus
Cercopithecus diana
Cercopithecus dryas
Cercopithecus erythrogaster
Cercopithecus erythrotis
Cercopithecus hamlyni
Cercopithecus lhoesti
Cercopithecus preussi
Cercopithecus salongo
Colobus badius badius
Colobus badius bouvieri
Colobus badius foai
Colobus badius gordonorum
Colobus badius kirkii
Colobus badius oustaleti
Colobus badius pennanti
Colobus badius preussi
Colobus badius temminckii
Colobus badius tephrosceles
Colobus badius rufomitratus
Colobus badius waldroni
Colobus satanas
Macaca pagensis
Macaca silenus
Macaca sylvanus
Nasalis larvatus
Papio leucophaeus
Papio sphinx

Golden Lion Tamarin
Golden-headed Lion Tamarin
Golden-rumped Lion Tamarin
Bare-faced Tamarin
Emperor Tamarin
White-footed Tamarin
Cotton-top Tamarin

Allen's Swamp Monkey
Black Mangabey
Tana River Mangabey
Collared Mangabey
Diana Monkey
Dryas Guenon
White-throated Guenon
Russet-eared Guenon
Owl-faced Guenon
L'hoest's Monkey
Preuss's Guenon
Salongo Guenon
Bay Colobus
Bouvier's Red Colobus
Foa Red Colobus
Uhehe Red Colobus
Zanzibar Red Colobus
Oustalet's Red Colobus
Pennant's Red Colobus
Preuss's Red Colobus
Western Red Colobus
Uganda Red Colobus
Tana River Red Colobus
Miss Waldron's Bay Colobus
Black Colobus
Mentawai Islands Macaque
Lion-tailed Macaque
Barbary Macaque
Proboscis Monkey
Drill
Mandrill

Brazil
Brazil
Brazil
Brazil, Peru
Bolivia, Brazil, Peru
Colombia
Colombia

Congo, Zaire
Angola, Zaire
Kenya
West Africa
West Africa
Zaire
Benin, Nigeria
Cameroon, Fernando Po, Nigeria
Rwanda, Uganda, Zaire
Burundi, Rwanda, Uganda, Zaire
Cameroon, Fernando Po, Nigeria
Zaire
West Africa
Congo
Zaire
Tanzania
Zanzibar
Sudan, Zaire
Fernando Po
Cameroon
West Africa
East Africa
Kenya
Ghana, Ivory Coast
Cameroon, Congo, Eq. Guinea, Gabon
Mentawai Is
India
Algeria, Gibraltar*, Morocco
Borneo
Cameroon, Fernando Po, Nigeria
Cameroon, Congo, Eq. Guinea, Gabon

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<u>Presbytis geei</u>	Golden Langur	R	Bhutan, India
<u>Presbytis johni</u>	Nilgiri Langur	V	India
<u>Presbytis potenziani</u>	Mentawai Islands Langur	I	Mentawai Is
<u>Procolobus verus</u>	Olive Colobus	R	West Africa
<u>Pygathrix nemaeus</u>	Douc Langur	E	China, Laos, Vietnam
<u>Rhinopithecus roxellanae</u>	Snub-nosed Langur	R	China
<u>Simias concolor</u>	Pig-tailed Langur	E	Mentawai Is
Family Hylobatidae			
<u>Hylobates concolor</u>	Black Gibbon	I	China, Indochina
<u>Hylobates klossi</u>	Kloss's Gibbon	V	Mentawai Is
<u>Hylobates moloch</u>	Javan Gibbon	E	Indonesia
<u>Hylobates pileatus</u>	Pileated Gibbon	E	Indochina, Thailand
Family Pongidae			
<u>Gorilla gorilla</u>	Gorilla	V	Equatorial Africa
<u>Gorilla gorilla beringei</u>	Mountain Gorilla	E	Rwanda, Uganda, Zaire
<u>Pan paniscus</u>	Pygmy Chimpanzee	V	Zaire
<u>Pan troglodytes</u>	Chimpanzee	V	Equatorial Africa
<u>Pongo pygmaeus</u>	Orang-utan	E	Borneo, Sumatra
Order EDENTATA			
Family Myrmecophagidae			
<u>Myrmecophaga tridactyla</u>	Giant Anteater	V	Central & South America
Family Bradypodidae			
<u>Bradypus torquatus</u>	Maned Sloth	E	Brazil
Family Dasypodidae			
<u>Clamphorhus retusus</u>	Burmeister's Armadillo	K	Argentina, Bolivia, Paraguay
<u>Chlamphorhus truncatus</u>	Pink Fairy Armadillo	K	Argentina
<u>Priodontes giganteus</u>	Giant Armadillo	V	South America
<u>Tolypeutes tricinctus</u>	Brazilian Three-banded Armadillo	I	Brazil
Order LAGOMORPHA			
Family Ochotonidae			
<u>Prolagus sardus</u>	Sardinian Pika	Ex	[Sardinia, Corsica]

Family Leporidae

- Bunolagus monticularis
- Caprolagus hispidus
- Nesolagus netscheri
- Pentalagus furnessi
- Romerolagus diazi

- Riverine Rabbit
- Hispid Hare
- Sumatran Short-eared Rabbit
- Amami Rabbit
- Volcano Rabbit

- E South Africa
- E Himalayan foothills
- R Sumatra
- E Ryukyu Is
- E Mexico

Order RODENTIA

Family Sciuridae

- Cynomys parvidens
- Marmota vancouverensis
- Marmota menzbieri
- Sciurus niger cinereus
- Family Heteromyidae
- Dipodomys elator
- Dipodomys heermanni morroensis

- Utah Prairie Dog
- Vancouver Island Marmot
- Menzbier's Marmot
- Delmarva Fox Squirrel
- Texas Kangaroo Rat
- Morro Bay Kangaroo Rat

- V U.S.A.
- E Canada
- V U.S.S.R.
- E U.S.A.
- R U.S.A.
- E U.S.A.

Family Cricetidae

- Pitymys bavaricus
- Reithrodontomys raviventris

- Bavarian Pine Vole
- Salt-marsh Harvest Mouse

- Ex [F.R.G.]
- E U.S.A.

Family Muridae

- Batomys granti
- Conilurus albipes
- Leporillus apicalis
- Leporillus conditor
- Microtus breweri
- Notomys amplus
- Notomys aquilo
- Notomys longicaudatus
- Notomys macrotis
- Notomys mordax
- Oryzomys argentatus
- Pseudomys fieldi
- Pseudomys oralis
- Pseudomys praeconis
- Tokudaia osimensis muenninki
- Xeromys myoides
- Zyzomys pedunculatus

- Luzon Forest Rat
- Rabbit-eared Tree-rat
- Lesser Stick-nest Rat
- Greater Stick-nest Rat
- Beach Vole
- Short-tailed Hopping-mouse
- Northern Hopping-mouse
- Long-tailed Hopping-mouse
- Big-eared Hopping-mouse
- Darling Downs Hopping-mouse
- Silver Rice Rat
- Alice Springs Mouse
- Hastings River Mouse
- Shark Bay Mouse
- Ryukyu Spiny Rat
- False Water-rat
- Central Rock-rat

- I Philippines
- Ex [Australia]
- Ex [Australia]
- R Australia
- R U.S.A.
- Ex [Australia]
- K Australia
- Ex [Australia]
- Ex [Australia]
- Ex [Australia]
- I U.S.A.
- Ex [Australia]
- I Australia
- R Australia
- I Ryukyu Is
- K Australia
- I Australia

Family Erithizontidae

- Chaetomys subspinosus

- Thin-spined Porcupine

- I Brazil

Family Chinchillidae

Chinchilla brevicaudata
Chinchilla lanigera

Short-tailed Chinchilla
Long-tailed Chinchilla

I Andes
I Chile

Family Capromyidae

Capromys angelcabrerai
Capromys auritus
Capromys garriDOI
Capromys melanurus
Capromys nanus
Capromys sanfelipensis
Geocapromys brownii
Geocapromys ingrahami
Plagiodontia aedium

Cabrera's Hutia
Large-eared Hutia
GarriDO's Hutia
Bushy-tailed Hutia
Dwarf Hutia
Little Earth Hutia
Jamaican Hutia
Bahamian Hutia
Hispaniolan Hutia

E Cuba
E Cuba
I Cuba
I Cuba
E Cuba
E Cuba
I Jamaica
R Bahamas
I Hispaniola

Order CETACEA

Family Platanistidae

Lipotes vexillifer
Platanista indi

Beiji Dolphin
Indus Dolphin

E China
E India, Pakistan

Family Delphinidae

Phocoena sinus

Vaquita

V Mexico

Family Ziphiidae

Hyperoodon ampullatus

Northern Bottlenose Whale

V Arctic, North Atlantic Ocean &
North Pacific Ocean

Family Balaenopteridae

Balaenoptera musculus
Balaenoptera physalus
Megaptera novaeangliae

Blue Whale
Fin Whale
Humpback Whale

E All Oceans
V All Oceans
E All Oceans

Family Balaenidae

Balaena mysticetus
Eubalaena glacialis

Bowhead Whale
Black Right Whale

E Arctic Ocean
E Temperate Seas

Order CARNIVORA

Family Canidae

<u>Atelocynus microtis</u>	
<u>Canis lupus</u>	Small-eared Dog
<u>Canis rufus</u>	Grey Wolf
<u>Canis simensis</u>	Red Wolf
<u>Chrysocyon brachyurus</u>	Simien Fox
<u>Cuon alpinus</u>	Maned Wolf
<u>Dusicyon australis</u>	Dhole
<u>Lycaon pictus</u>	Falkland Island Wolf
<u>Speothos venaticus</u>	African Wild Dog
	Bush Dog

K	South America
V	North America, Middle East, Eurasia
E	U.S.A.
E	Ethiopia
V	South America
V	Asia
Ex	[Falkland Is]
V	Subsaharan Africa
V	South America

Family Ursidae

<u>Ailuropoda melanoleuca</u>	
<u>Melursus ursinus</u>	Giant Panda
<u>Selenarctos thibetanus gedrosianus</u>	Sloth Bear
<u>Tremarctos ornatus</u>	Baluchistan Bear
<u>Ursus arctos nelsoni</u>	Spectacled Bear
<u>Ursus maritimus</u>	Mexican Grizzly Bear
	Polar Bear

R	China
I	India, Nepal, Sri Lanka
E	Iran, Pakistan
V	South America
Ex	[Mexico, U.S.A.]
V	Arctic

Family Mustelidae

<u>Lutra felina</u>	
<u>Lutra longicaudis longicaudis</u>	Marine Otter
<u>Lutra lutra lutra</u>	La Plata Otter
<u>Lutra provocax</u>	European Otter
<u>Mustela nigripes</u>	Southern River Otter
<u>Pteronura brasiliensis</u>	Black-footed Ferret
	Giant Otter

V	Chile, Peru, [Argentina]
V	South America
V	Eurasia
I	Argentina, Chile
E	U.S.A.
V	South America

Family Viverridae

<u>Cryptoprocta ferox</u>	
<u>Eupleres goudotii</u>	Fossa
<u>Fossa fossa</u>	Falanouc
<u>Macrogalidia musschenbroeki</u>	Malagasy Civet
<u>Viverra megaspila civettina</u>	Celebes Giant Palm Civet
	Matabar Large Spotted Civet

V	Madagascar
K	Madagascar
K	Madagascar
R	Sulawesi
E	India

Family Herpestidae

<u>Galidictis fasciata</u>	
<u>Salanoia concolor</u>	Malagasy Broad-striped Mongoose
	Malagasy Brown-tailed Mongoose

K	Madagascar
K	Madagascar

Family Hyaenidae

Hyaena brunnea
Hyaena hyaena barbara

Brown Hyaena
Barbary Hyaena

V Southern Africa
E Algeria, Morocco, Tunisia

Family Felidae

Acinonyx jubatus
Acinonyx jubatus venaticus
Felis badia
Felis caracal michaelis
Felis concolor coryi
Felis concolor cougar
Felis jacobita
Felis margarita scheffeli
Felis marmorata
Felis pardalis
Felis pardina
Felis planiceps
Felis temmincki
Felis tigrina
Felis wiedii
Felis yagouaroundi
Neofelis nebulosa
Panthera leo persica
Panthera onca
Panthera pardus
Panthera tigris
Panthera uncia
Prionailurus iriomotensis

Cheetah
Asiatic Cheetah
Bornean Bay Cat
Turkmenian Caracal Lynx
Florida Cougar
Eastern Cougar
Andean Cat
Pakistan Sand Cat
Marbled Cat
Ocelot
Pardel Lynx
Flat-headed Cat
Asiatic Golden Cat
Little Spotted Cat
Margay
Jaguarundi
Clouded Leopard
Asiatic Lion
Jaguar
Leopard
Tiger
Snow Leopard
Iriomote Cat

V Africa, Middle East, Iran
E Iran
R Borneo
R U.S.S.R.
E U.S.A.
E Canada, U.S.A.
R Andes
E Pakistan
I Asia
V U.S.A., Central & South America
E Portugal, Spain
I South-east Asia
I Asia
V Central & South America
V Central & South America
I U.S.A., Central & South America
V Asia
E India
V U.S.A., Central & South America
V Africa, Middle East, Asia
E Asia
E Asia
E Ryukyu Is

Order PINNIPEDIA

Family Otariidae

Arctocephalus philippii
Arctocephalus townsendi
Odobenus rosmarus laptevi
Zalophus californianus japonicus

Juan Fernandez Fur Seal
Guadalupe Fur Seal
Laptev Walrus
Japanese Sea Lion

V Chile
V Mexico, U.S.A.
K U.S.S.R.
E Japan, North & South Korea

Family Phocidae

Monachus monachus
Monachus schauinslandi
Monachus tropicalis
Phoca hispida saimensis

Mediterranean Monk Seal
Hawaiian Monk Seal
Caribbean Monk Seal
Saimaa Seal

E Mediterranean & Mauritanian coasts
E Hawaii
Ex? [Caribbean]
R Finland

Order PROBOSCIDEA

Family Elephantidae

Elephas maximus

Loxodonta africana

Asian Elephant
African Elephant

E Asia
V Africa

Order SIRENIA

Family Dugongidae

Dugong dugon

Hydrodamalis gigas

Dugong

V Coastal Indian Ocean & Eastern
Pacific Ocean

Steller's Sea Cow

Ex [Bering Sea, North Pacific Ocean]

Family Trichechidae

Trichechus inunguis

Trichechus manatus

Amazonian Manatee
Caribbean Manatee

V Amazon basin
V Caribbean & South American Coasts &
Rivers

Trichechus senegalensis

West African Manatee

V West Africa

Order PERISSODACTYLA

Family Equidae

Equus africanus

Equus grevyi

Equus hemionus

Equus hemionus hemippus

Equus hemionus khur

Equus przewalskii

Equus quagga

Equus zebra hartmannae

Equus zebra zebra

African Wild Ass

Grevy's Zebra

Asiatic Wild Ass

Syrian Wild Ass

Indian Wild Ass

Przewalski's Horse

Quagga

Hartmann's Mountain Zebra

Cape Mountain Zebra

E North Africa
E Ethiopia, Kenya, [Somalia]

V Asia

E Mesopotamia

E Pakistan

Ex? [China, Mongolia]

Ex [South Africa]

V Angola, Namibia

E South Africa

Family Tapiridae

Tapirus bairdii

Tapirus indicus

Tapirus pinchaque

Central American Tapir

Malayan Tapir

Mountain Tapir

V Central & North-west South America
E South-east Asia
V North-west South America

Family Rhinocerotidae

Ceratotherium simum cottoni

Diceros bicornis

Didemnocerus sumatrensis

Rhinoceros sondaicus

Rhinoceros unicornis

Northern Square-tipped Rhinoceros

Black Rhinoceros

Sumatran Rhinoceros

Javan Rhinoceros

Great Indian Rhinoceros

E Zaire

E Africa

E South-east Asia

E Java

E India, Nepal

Order ARTIODACTYLA

Family Suidae

Babirusa
Sus salvanus

V Sulawesi
E [Bangladesh], India, Nepal

Family Tayassuidae

Catagonus wagneri

V Argentina, Bolivia, Paraguay

Family Hippopotamidae

Choeropsis liberiensis

V West Africa

Family Camelidae

Camelus bactrianus
Vicugna vicugna

V China, Mongolia
V Andes

Family Cervidae

Axis calamianensis
Axis kuhli
Blastocerus dichotomus
Cervus albirostris
Cervus duvauceli
Cervus elaphus bactrianus
Cervus elaphus barbarus
Cervus elaphus corsicanus
Cervus elaphus hanglu
Cervus elaphus macneilli
Cervus elaphus wallichi
Cervus elaphus yarkandensis
Cervus eldi eldi
Cervus eldi siamensis
Cervus nippon grassianus
Cervus nippon keramae
Cervus nippon kopschi
Cervus nippon mandarinus
Cervus nippon taiouanus
Dama mesopotamica
Hippocamelus antisensis
Hippocamelus bisulcus
Moschus chrysogaster (subspecies)

Calamian Deer
Kuhl's Deer
Marsh Deer
Thorold's Deer
Swamp Deer
Bactrian Deer
Barbary Deer
Corsican Red Deer
Hangul
McNeill's Deer
Shou
Yarkand Deer
Manipur Brow-antlered Deer
Thailand Brow-antlered Deer
Shansi Sika
Ryukyu Sika
South China Sika
North China Sika
Formosan Sika
Persian Fallow Deer
North Andean Huemul
South Andean Huemul
Himalayan subspecies of Musk Deer

V Philippines
R Bawean I.
V Central South America
I China
E India, Nepal
E Afghanistan, U.S.S.R.
V Algeria, Tunisia
E [Corsica], Sardinia
E India
I China
E China, Bhutan
E China
E India
E South-east Asia
E China
E Ryukyu Is
E China
E China
E Taiwan
E Mesopotamia
V North Andes
E South Andes
V Himalayas

<u>Muntiacus crinifrons</u>	Black Muntjac	I	China
<u>Muntiacus feae</u>	Fea's Muntjac	E	Burma, Thailand
<u>Odocoileus hemionus cerrosensis</u>	Cedros Island Mule Deer	R	Mexico
<u>Odocoileus virginianus clavium</u>	Key Deer	R	U.S.A.
<u>Ozotoceros bezoarticus celer</u>	Argentinian Pampas Deer	E	Argentina
<u>Pudu mephistophiles</u>	Northern Pudu	I	Andes
Family Antilocapridae			
<u>Antilocapra americana peninsularis</u>	Lower California Pronghorn	E	Mexico
<u>Antilocapra americana sonoriensis</u>	Sonoran Pronghorn	E	Mexico, U.S.A.
Family Bovidae			
<u>Addax nasomaculatus</u>	Addax	E	Sahara/Sahel
<u>Aepyceros melampus petersi</u>	Black-faced Impala	E	Angola, Namibia
<u>Alcelaphus buselaphus swaynei</u>	Swayne's Hartebeest	E	Ethiopia, Somalia
<u>Alcelaphus buselaphus tora</u>	Tora Hartebeest	E	Egypt, Ethiopia, Sudan
<u>Ammodorcas clarkei</u>	Dibatag	V	Ethiopia, Somalia
<u>Ammotragus lervia</u>	Barbary Sheep	V	Sahara/Sahel
<u>Bos gaurus</u>	Gaur	V	South-east Asia
<u>Bos grunniens</u>	Wild Yak	E	Central Asia
<u>Bos javanicus</u>	Banteng	V	South-east Asia
<u>Bos sauveli</u>	Kouprey	E	Indochina
<u>Bubalus bubalis</u>	Wild Asiatic Water Buffalo	E	India, Nepal
<u>Bubalus depressicornis</u>	Lowland Anoa	E	Sulawesi
<u>Bubalus mindorensis</u>	Tamaraw	E	Philippines
<u>Bubalus quarlesi</u>	Mountain Anoa	E	Sulawesi
<u>Budorcas taxicolor bedfordi</u>	Golden Takin	R	China
<u>Budorcas taxicolor tibetana</u>	Szechwan Takin	I	China
<u>Capra falconeri</u>	Markhor	V	West Himalayas
<u>Capra falconeri megaceros</u>	Straight-horned Markhor	E	Afghanistan, Pakistan
<u>Capra pyrenaica pyrenaica</u>	Pyrenean Ibex	E	Spain
<u>Capra wylie</u>	Walia Ibex	E	Ethiopia
<u>Capricornis sumatraensis sumatraensis</u>	Sumatran Serow	E	Sumatra
<u>Cephalophus adersi</u>	Ader's Duiker	V	Kenya, Tanzania, Zanzibar
<u>Cephalophus jentinki</u>	Jentink's Duiker	E	Ivory Coast, Liberia
<u>Cephalophus spadix</u>	Abbott's Duiker	K	Tanzania
<u>Cephalophus zebra</u>	Zebra Duiker	I	Ivory Coast, Liberia, Sierra Leone
<u>Damaliscus dorcas dorcas</u>	Bontebok	V	South Africa
<u>Damaliscus hunteri</u>	Hunter's Antelope	R	Kenya, Somalia, Tanzania
<u>Dorcatragus megalotis</u>	Beira Antelope	K	Djibouti, Ethiopia, Somalia

<u>Gazella cuvieri</u>	Cuvier's Gazelle	E	North-west Africa
<u>Gazella dama</u>	Dama Gazelle	V	Sahara/Sahel
<u>Gazella dorcas massaesyala</u>	Dorcas Gazelle	K	Sahara/Sahel
<u>Gazella gazella</u>	Mountain Gazelle	V	Arabia, Middle East
<u>Gazella leptoceros</u>	Slender-horned Gazelle	V	Sahara/Sahel
<u>Gazella rufifrons</u>	Red-fronted Gazelle	K	Senegal to Eritrea
<u>Gazella soemmerringi</u>	Soemmerring's Gazelle	V	North-eastern Africa
<u>Gazella spekei</u>	Speke's Gazelle	K	Somalia, Ethiopia
<u>Gazella subgutturosa marica</u>	Saudi Goitred Gazelle	E	Arabia
<u>Hemitragus hylocrius</u>	Nilgiri Tahr	V	India
<u>Hemitragus jayakari</u>	Arabian Tahr	E	Oman, U.A.E.
<u>Hippotragus leucophaeus</u>	Bluebuck	Ex	[South Africa]
<u>Hippotragus niger variiani</u>	Giant Sable Antelope	E	Angola
<u>Kobus leche</u>	Lechwe	V	Southern Africa
<u>Neotragus moschatus moschatus</u>	Zanzibar Suni	E	Zanzibar
<u>Oryx dammah</u>	Scimitar-horned Oryx	E	Sahara/Sahel
<u>Oryx leucoryx</u>	Arabian Oryx	E	Arabia, Middle East
<u>Ovis ammon musimon</u>	Mediterranean Mouflon	E	Sardinia, Corsica, Cyprus
<u>Rupicapra rupicapra balcanica</u>	Balkan Chamois	K	Albania, Bulgaria, Greece, Yugoslavia
<u>Rupicapra rupicapra cartusiana</u>	Chartreuse Chamois	E	France
<u>Rupicapra rupicapra ornata</u>	Abruzzo Chamois	V	Italy
<u>Taurotragus derbianus derbianus</u>	Western Giant Eland	E	West Africa

CLASS AVES

Order RHEIFORMES

Family Rheidae

Pterocnemia pennata tarapacensis

Order TINAMIFORMES

Family Tinamidae

Crypturellus saltuarius

Tinamus solitarius pernambucensis

Order PODICIPEDIFORMES

Family Podicipedidae

Podiceps andinus

Podiceps gallardoi

Podiceps taczanowskii

Cuvier's Gazelle	E	North-west Africa
Dama Gazelle	V	Sahara/Sahel
Dorcas Gazelle	K	Sahara/Sahel
Mountain Gazelle	V	Arabia, Middle East
Slender-horned Gazelle	V	Sahara/Sahel
Red-fronted Gazelle	K	Senegal to Eritrea
Soemmerring's Gazelle	V	North-eastern Africa
Speke's Gazelle	K	Somalia, Ethiopia
Saudi Goitred Gazelle	E	Arabia
Nilgiri Tahr	V	India
Arabian Tahr	E	Oman, U.A.E.
Bluebuck	Ex	[South Africa]
Giant Sable Antelope	E	Angola
Lechwe	V	Southern Africa
Zanzibar Suni	E	Zanzibar
Scimitar-horned Oryx	E	Sahara/Sahel
Arabian Oryx	E	Arabia, Middle East
Mediterranean Mouflon	E	Sardinia, Corsica, Cyprus
Balkan Chamois	K	Albania, Bulgaria, Greece, Yugoslavia
Chartreuse Chamois	E	France
Abruzzo Chamois	V	Italy
Western Giant Eland	E	West Africa
Puna Rhea	E	Eastern Andes
Magdalena Tinamou	I	Colombia
Pernambuco Solitary Tinamou	E	Brazil
Colombian Grebe	Ex	[Colombia]
Hooded Grebe	R	Argentina
Junin Grebe	R	Peru

Birds

<u>Podilymbus gigas</u>	Atitlan Grebe	E	Guatemala
<u>Tachybaptus pelzelni</u>	Madagascar Little Grebe	K	Madagascar
<u>Tachybaptus rufolavatus</u>	Alaotra Grebe	E	Madagascar
Order PROCELLARIIFORMES			
Family Diomedidae			
<u>Diomedea albatrus</u>	Short-tailed Albatross	E	Japan
<u>Diomedea amsterdamensis</u>	Amsterdam Albatross	E	Amsterdam I.
Family Procellariidae			
<u>Procellaria parkinsoni</u>	Black Petrel	E	Galapagos Is, New Zealand, South America
<u>Procellaria westlandica</u>	Westland Black Petrel	V	New Zealand, Australia
<u>Pterodroma aterrima</u>	Mascarene Petrel	E	Reunion, Rodrigues
<u>Pterodroma axillaris</u>	Chatham Island Petrel	E	Chatham Is
<u>Pterodroma cahow</u>	Cahow	E	Bermuda
<u>Pterodroma cookii cookii</u>	New Zealand Cook's Petrel	E	New Zealand, North & South America
<u>Pterodroma cookii</u>	Gon-gon	R	Desertas (Madeira), Cape Verde Is
<u>Pterodroma feae</u>	Black-capped Petrel	V	Haiti
<u>Pterodroma hypoleuca hasitata</u>	Gould's Petrel	R	New Zealand, Australia
<u>Pterodroma leucoptera leucoptera</u>	Macgillivray's Petrel	I	Fiji
<u>Pterodroma macgillivrayi</u>	Magenta Petrel	E	Chatham Is
<u>Pterodroma magentae</u>	Freira	R	Madeira
<u>Pterodroma madeira</u>	Dark-rumped Petrel	E	Hawaii, Galapagos Is, Central & South America
<u>Pterodroma phaeopygia</u>	Beck's Petrel	I	Solomon Is
<u>Pterodroma rostrata becki</u>	Heinroth's Shearwater	I	New Britain
<u>Puffinus heinrothi</u>	Newell's Shearwater	V	Hawaii
<u>Puffinus puffinus newelli</u>			
Order PELECANIFORMES			
Family Pelecanidae			
<u>Pelecanus crispus</u>	Dalmatian Pelican	V	South-east Europe, U.S.S.R., China
Family Sulidae			
<u>Sula abbotti</u>	Abbott's Booby	E	Christmas I. (Indian O.)
Family Phalacrocoracidae			
<u>Nannopterum harrisi</u>	Galapagos Flightless Cormorant	R	Galapagos Is
<u>Phalacrocorax c. carunculatus</u>	King Shag	R	New Zealand
Family Fregatidae			
<u>Fregata andrewsi</u>	Christmas Frigatebird	V	Christmas I. (Indian O.)
<u>Fregata aquila</u>	Ascension Frigatebird	R	Ascension I.

Order CICONIIFORMES

Family Ardeidae

Ardea humbloti
Egretta eulophotes
Egretta vinaceigula
Tigrisoma fasciatum fasciatum

Madagascar Heron
Chinese Egret
Slaty Egret
Fasciated Tiger-heron

K Madagascar, Comoro Is
V China, South-east Asia
I Southern Africa
I Argentina, Brazil

Family Ciconiidae

Ciconia (ciconia) boyciana
Ciconia episcopus stormi
Mycteria cinerea

Oriental White Stork
Storm's Stork
Milky Stork

E Eastern Palearctic
I Indonesia, Malaysia
V South-east Asia

Family Threskiornithidae

Bostrychia bocagei
Geronticus calvus
Geronticus eremita
Nipponia nippon
Pseudibis davisoni
Thaumatibis gigantea
Threskiornis aethiopica abbotti

Dwarf Olive Ibis
Southern Bald Ibis
Northern Bald Ibis

Japanese Crested Ibis
White-shouldered Ibis
Giant Ibis
Aldabra Sacred Ibis

I Sao Tome
R South Africa
E South Europe, Middle East, North Africa

E Japan, China, Korea
I South-east Asia
R South-east Asia
R Seychelles

Order ANSERIFORMES

Family Anatidae

Anas aucklandica
Anas bernieri
Anas laysanensis
Anas "oustaletii"
Anas wyvilliana
Anser albifrons elgasi
Aythya innotata
Branta canadensis leucopareia
Branta sandvicensis
Cairina scutulata
Chloephaga rubidiceps
Dendrocygna arborea
Mergus octosetaceus
Mergus squamatus
Netta erythrophthalma erythrophthalma

New Zealand Brown Teal
Madagascar Teal
Laysan Duck
Marianas Mallard
Koloa
Tule White-fronted Goose
Madagascar Pochard
Aleutian Canada Goose
Nene
White-winged Wood Duck
Ruddy-headed Goose
West Indian Whistling Duck
Brazilian Merganser
Chinese Merganser
South American Pochard

V New Zealand
V Madagascar
R Hawaii
E Marianas
V Hawaii
R U.S.A.
E Madagascar
R U.S.A., Mexico
V Hawaii
V India, South-east Asia
V South America, Falkland Is
V West Indies
I Argentina, Brazil
I Siberia, China
I North-west South America

Order FALCONIFORMES

Family Cathartidae

Gymnogyps californianus

California Condor

E

California

Family Accipitridae

Accipiter fasciatus natalis

Christmas Brown Goshawk

R

Christmas I. (Indian O.)

Accipiter francesii pusillus

Anjouan Sparrowhawk

E

Comoro Is

Accipiter striatus fringilloides

Cuban Sharp-shinned Hawk

R

Cuba

Accipiter striatus venator

Puerto Rican Sharp-shinned Hawk

R

Puerto Rico

Aquila adalberti

Spanish Imperial Eagle

E

Spain, Portugal

Buteo galapagoensis

Galapagos Hawk

R

Galapagos Is

Buteo platypterus brunescens

Puerto Rican Broad-winged Hawk

R

Puerto Rico

Buteo solitarius

Hawaiian Hawk

R

Hawaii

Chondrohierax uncinatus mirus

Grenada Hook-billed Kite

E

Grenada

Chondrohierax uncinatus wilsonii

Cuban Hook-billed Kite

R

Cuba

Eutriorchis astur

Madagascar Serpent Eagle

E

Madagascar

Gyps coprotheres

Cape Vulture

E

Southern Africa

Haliaeetus albicilla

White-tailed Eagle

V

Palearctic

Haliaeetus leucocephalus leucocephalus

Southern Bald Eagle

E

U.S.A., Mexico

Haliaeetus vociferoides

Madagascar Fish Eagle

E

Madagascar

Harpia harpyja

Harpy Eagle

R

Central & South America

Leucopternis occidentalis

Grey-backed Hawk

I

South America

Leucopternis polionota

Mantled Hawk

I

Central & South America

Morphnus guianensis

Crested Eagle

R

Philippines

Pitheophaga jefferyi

Philippines Eagle

E

Philippines

Rostrhamus sociabilis plumbeus

Florida Everglade Kite

R

U.S.A., Cuba

Family Falconidae

Falco newtoni aldabranus

Aldabra Kestrel

R

Aldabra

Falco peregrinus

Peregrine Falcon

V

Worldwide

Falco punctatus

Mauritius Kestrel

E

Mauritius

Order GALLIFORMES

Family Megapodiidae

Macrocephalon maleo

Maleo

V

Indonesia

Megapodius laperouse

Micronesian Megapode

R

Marianas & Palau Is

Family Cracidae

<u>Aburria jacutinga</u>	Black-fronted Piping Guan	E	South America
<u>Crax alberti</u>	Blue-billed Curassow	V	Colombia
<u>Crax blumenbachii</u>	Red-billed Curassow	E	Brazil
<u>Crax fasciolata pinima</u>	Northern Bare-faced Curassow	I	Brazil
<u>Crax mitu mitu</u>	Eastern Razor-billed Curassow	E	Brazil
<u>Crax rubra griscomi</u>	Cozumel Curassow	R	Mexico
<u>Oreophasis derbianus</u>	Horned Guan	E	Guatemala, Mexico
<u>Ortalis vetula deschauenseei</u>	Utila Chachalaca	E	Honduras
<u>Penelope albipennis</u>	White-winged Guan	E	Peru
<u>Penelope perspicax</u>	Cauca Guan	E	Colombia
<u>Pipile pipile pipile</u>	Trinidad Piping Guan	E	Trinidad & Tobago

Family Phasianidae

<u>Agelastes meleagrides</u>	White-breasted Guineafowl	E	West Africa
<u>Catreus wallichii</u>	Cheer Pheasant	E	Nepal, Pakistan, India
<u>Colinus virginianus ridgwayi</u>	Masked Bobwhite Quail	E	U.S.A., Mexico
<u>Crossoptilon crossoptilon</u>	White Eared Pheasant	V	India, Burma, China
<u>Crossoptilon mantchuricum</u>	Brown Eared Pheasant	E	China
<u>Francolinus camerunensis</u>	Mount Cameroon Francolin	R	Cameroon
<u>Francolinus nahanii</u>	Nahan's Francolin	R	Uganda, Zaire
<u>Francolinus ochropectus</u>	Djibouti Francolin	E	Djibouti
<u>Francolinus swierstrai</u>	Swierstra's Francolin	I	Angola
<u>Lophophorus luvsii</u>	Chinese Monal	E	China
<u>Lophophorus sclateri</u>	Sclater's Monal	R	Southern Asia
<u>Lophura bulweri</u>	Bulwer's Wattled Pheasant	V	Borneo
<u>Lophura edwardsi</u>	Edward's Pheasant	V	Vietnam
<u>Lophura imperialis</u>	Imperial Pheasant	V	Laos, Vietnam
<u>Lophura swinhoii</u>	Swinhoe's Pheasant	V	Taiwan
<u>Odontophorus strophium</u>	Gorgeted Wood Quail	E	Colombia
<u>Pavo muticus</u>	Green Peafowl	V	South-east Asia
<u>Perdix perdix italica</u>	Italian Grey Partridge	E	Italy
<u>Polyplectron emphanum</u>	Palawan Peacock Pheasant	V	Philippines
<u>Rheinardia ocellata</u>	Crested Argus Pheasant	R	Laos, Vietnam, Malaysia
<u>Symaticus ellioti</u>	Elliot's Pheasant	E	China
<u>Symaticus humiae</u>	Hume's Bar-tailed Pheasant	R	China, India, Indochina
<u>Symaticus mikado</u>	Mikado Pheasant	V	Taiwan
<u>Tetrao urogallus cantabricus</u>	Cantabrian Capercaillie	E	Spain
<u>Iragopan blythii</u>	Blyth's Tragopan	R	Tibet, Bhutan, India, Burma
<u>Iragopan caboti</u>	West's Tragopan	E	Tibet, Bhutan, India
<u>Iragopan melanocephalus</u>	Western Tragopan	E	India, Pakistan
<u>Tympanuchus cupido attwateri</u>	Attwater's Prairie Chicken	R	U.S.A.

Order GRUIFORMES
Family Mesitornithidae

Mesitornis unicolor
Mesitornis variegata
Monias benschi

Brown Mesite
White-breasted Mesite
Subdesert Mesite

K Madagascar
R Madagascar
R Madagascar

Family Gruidae

Grus americana
Grus canadensis nesiotis
Grus canadensis pulla
Grus japonensis
Grus leucogeranus
Grus monacha
Grus nigricollis
Grus vipio

Whooping Crane
Cuban Sandhill Crane
Mississippi Sandhill Crane
Japanese Crane
Siberian White Crane
Hooded Crane
Black-necked Crane
White-naped Crane

E Canada, U.S.A.
R Cuba
E U.S.A.
V East Asia
E Central & East Asia
V East Asia
I East Asia
V East Asia

Family Rallidae

Amaurornis olivieri
Atlantisia rogersi
Coturnicops noveboracensis goldmani
Cyanolimnas cerverai
Dryolimnas cuvieri aldabranus
Fulica americana alai
Gallinula cornuta
Gallinula chloropus guami
Gallinula chloropus sandvicensis
Gallinula comeri
Notornis mantelli
Pareudiastes sylvestris
Rallus longirostris levipes
Rallus longirostris obsoletus
Rallus owstoni
Rallus pectoralis muelleri
Rallus poecilopterus
Rallus semiplumbeus
Sarothrura ayresi
Sarothrura watersi
Tricholimnas sylvestris

Sakalava Rail
Inaccessible Rail
Goldman's Yellow Rail
Zapata Rail
Aldabra White-throated Rail
Hawaiian Coot
Horned Coot
Marianas Gallinule
Hawaiian Gallinule
Gough Moorhen
Takae
San Cristobal Mountain Rail
Light-footed Clapper Rail
California Clapper Rail
Guam Rail
Auckland Island Rail
Barred-wing Rail
Bogota Rail
White-winged Flufftail
Slender-billed Flufftail
Lord Howe Wood Rail

K Madagascar
R Tristan da Cunha
I Mexico
R Cuba
R Seychelles
R Hawaii
R Argentina, Bolivia, Chile
R Marianas
E Hawaii
R Tristan da Cunha
E New Zealand
I Solomon Is
E Mexico, U.S.A.
V U.S.A.
V Guam
I Auckland Is
E Fiji
V Colombia
I Ethiopia & Southern Africa
I Madagascar
E Lord Howe I.

Family Rhynochetidae
Rhynochetos jubatus

Kagu

E New Caledonia

Family **Otididae**
Ardeotis nigriceps

Order **CHARADRIIFORMES**

Family **Haematopodidae**

Haematopus meadewaldoi
Haematopus unicolor chathamensis

Family **Recurvirostridae**

Himantopus himantopus knudseni
Himantopus novaezealandiae

Family **Charadriidae**

Charadrius sanctaehelenae
Charadrius thoracicus
Thinornis novaeseelandiae
Vanellus macropterus

Family **Scolopacidae**

Coenocorypha aucklandica
Limnodromus semipalmatus
Numenius borealis
Prosobonia cancellatus
Tringa guttifer

Family **Laridae**

Larus audouinii
Larus relictus
Sterna albifrons browni
Sterna balaenarum
Sterna zimmermanni

Order **COLUMBIFORMES**

Family **Columbidae**

Caloenas nicobarica pelewensis
Claravis godefrida
Columba bollii
Columba inornata exigua
Columba inornata wetmorei
Columba junoniae
Columba oliviae

Great Indian Bustard

E India

Canarian Black Oystercatcher
Chatham Island Oystercatcher

Ex [Canary Is]
E Chatham Is

Hawaiian Stilt
Black Stilt

R Hawaii
E New Zealand

St Helena Plover
Madagascar Plover
New Zealand Shore Plover
Javanese Wattled Lapwing

R St Helena
R Madagascar
E Chatham Is
Ex [Indonesia]

New Zealand Snipe
Asian Dowitcher
Eskimo Curlew
Tuamotu Sandpiper
Spotted Greenshank

R New Zealand
R Asia
E Americas
V Tuamotu
I South-east Asia

Audouin's Gull
Relict Gull
California Least Tern
Damara Tern
Chinese Crested Tern

R Mediterranean, North Africa
R Mongolia, U.S.S.R., Vietnam
E Guatemala, Mexico, U.S.A.
R Southern Africa
I China & South-east Asia

Palau Nicobar Pigeon
Purple-winged Ground Dove
Dark-tailed Laurel Pigeon
Jamaican Plain Pigeon
Puerto Rican Plain Pigeon
White-tailed Laurel Pigeon
Somali Pigeon

E Pacific Trust Territory
V Argentina, Paraguay, Brazil
R Canary Is
I Jamaica
E Puerto Rico
R Canary Is
R Somalia

<u>Columba palumbus azorica</u>	Azores Wood Pigeon	R	Azores
<u>Columba thomensis</u>	Maroon Pigeon	V	Sao Tome
<u>Columba trocaz</u>	Long-toed Pigeon	V	Canary Is, Madeira
<u>Didunculus strigirostris</u>	Tooth-billed Pigeon	V	West Samoa
<u>Drepanoptila holosericea</u>	Cloven-feathered Dove	V	New Caledonia
<u>Ducula aurorae</u>	Society Islands Pigeon	V	Society Is, Tuamotu
<u>Ducula galeata</u>	Marquesas Pigeon	E	Marquesas Is
<u>Ducula goliath</u>	Giant Imperial Pigeon	V	New Caledonia
<u>Ducula oceanica ratakensis</u>	Radak Micronesian Pigeon	I	Marshall Is
<u>Ducula oceanica teraokai</u>	Truk Micronesian Pigeon	E	Caroline Is
<u>Ducula whartoni</u>	Christmas Imperial Pigeon	V	Christmas I. (Indian O.), Cocos Is
<u>Gallucolumba erythroptera</u>	Society Islands Ground Dove	I	Tuamotu
<u>Gallucolumba rubescens</u>	Marquesas Ground Dove	I	Marquesas Is
<u>Hemiphaga novaeseelandiae chathamensis</u>	Chatham Island Pigeon	E	Chatham Is
<u>Leptotila conoveri</u>	Tolima Dove	I	Colombia
<u>Leptotila wellsi</u>	Grenada Dove	I	Grenada
<u>Nesoenas mayeri</u>	Pink Pigeon	E	Mauritius
<u>Ptilinopus huttoni</u>	Rapa Fruit Dove	R	Tubuai Is
<u>Ptilinopus roseicapillus</u>	Marianas Fruit Dove	V	Guam
<u>Streptopelia picturata rostrata</u>	Seychelles Turtle Dove	Ex	Seychelles
<u>Treron australis griveaudi</u>	Moheli Green Pigeon	R	Comoro Is

Order PSITTACIFORMES

Family Loridae

<u>Vini peruviana</u>	Tahiti Lorikeet	R	Cook I., Society Is, Tuamotu
<u>Vini ultramarina</u>	Ultramarine Lorikeet	R	Marquesas Is

Family Psittacidae

<u>Agapornis nigrigenis</u>	Black-cheeked Lovebird	R	Zambia, Zimbabwe
<u>Amazona arausiaca</u>	Red-necked Parrot	E	Dominica
<u>Amazona brasiliensis</u>	Red-tailed Parrot	E	Brazil
<u>Amazona guildingii</u>	St Vincent Parrot	E	St Vincent
<u>Amazona imperialis</u>	Imperial Parrot	E	Dominica
<u>Amazona leucocephala bahamensis</u>	Bahamas' Parrot	R	Bahamas
<u>Amazona leucocephala hesternae</u>	Cayman Brac Parrot	R	Cayman Is
<u>Amazona pretrei</u>	Red-spectacled Parrot	V	Argentina, Brazil, Uruguay
<u>Amazona versicolor</u>	St Lucia Parrot	E	St Lucia
<u>Amazona vittata</u>	Puerto Rican Parrot	E	Puerto Rico
<u>Anodorhynchus glaucus</u>	Glaucous Macaw	E	South America
<u>Anodorhynchus leari</u>	Lear's Macaw	E	Brazil
<u>Ara ambigua guayaquilensis</u>	Guayaquil Great Green Macaw	I	Ecuador
<u>Ara glaucogularis</u>	Blue-throated Macaw	I	Bolivia
<u>Aratinga guarouba</u>	Golden Parakeet	V	Brazil

Bolborhynchus ferrugineifrons
Coracopsis nigra barklyi
Cyanopsitta spixii
Cyanoramphus auriceps forbesi
Cyanoramphus malherbi
Cyanoramphus novaezelandiae cookii
Eumyphicus cornutus uvaeensis
Geopsittacus occidentalis
Hapalopsittaca amazonina fuertisi
Neophema chrysogaster
Neophema pulchella
Neophema splendida
Ognorhynchus icterotis
Pezoparus wallicus
Psephotus c. crysopterygius
Psephotus chrysopterygius dissimilis
Psephotus pulcherrius
Psittacula eques
Pyrhura cruentata
Rhynchopsitta pachyrhyncha
Strigops habroptilus
Touit melanonta
Touit surda

Rufous-fronted Parakeet
 Seychelles Black Parrot
 Spix's Macaw
 Forbes's Parakeet
 Orange-fronted Parakeet
 Norfolk Island Parakeet
 Uvea Horned Parakeet
 Night Parrot
 Indigo-winged Parrot
 Orange-bellied Parakeet
 Turquoise Parakeet
 Splendid Parakeet
 Yellow-eared Conure
 Ground Parrot
 Golden-shouldered Parakeet
 Hooded Parakeet
 Paradise Parakeet
 Mauritius Parakeet
 Ochre-marked Parakeet
 Thick-billed Parrot
 Kakapo
 Black-eared Parrotlet
 Golden-tailed Parrotlet

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Colombia
 Seychelles
 Brazil
 Chatham Is
 Norfolk I.
 New Caledonia
 Australia
 Colombia
 Australia
 Australia
 Australia
 Australia
 Mauritius
 Brazil
 Mexico
 New Zealand
 Brazil
 Brazil

Order CUCULIFORMES

Family Musophagidae

Tauraco bannermani
Tauraco fischeri zanzibaricus
Tauraco ruspolii

Bannerman's Turaco
 Zanzibar Red-crested Lourie
 Prince Ruspoli's Turaco

E
 R
 R

Cameroon
 Zanzibar
 Ethiopia

Family Cuculidae

Coua delalandei
Neomorphus geoffroyi dulcis
Neomorphus geoffroyi maximiliani
Pachycoccyx audeberti audeberti

Snail-eating Coua
 South-eastern Rufous-vented
 Ground Cuckoo
 Bahia Rufous-vented Ground Cuckoo
 Madagascar Thick-billed Cuckoo

Ex
 E
 I
 I

[Madagascar]
 Brazil
 Brazil
 Madagascar

Order STRIGIFORMES

Family Tytonidae

Phodilus prigoginei
Tyto soumagnei

Tombwe Owl
 Madagascar Red Owl

I
 I

Zaire
 Madagascar

Family Strigidae

<u>Asio clamator oberi</u>	Tobago Striped Owl	R	Trinidad & Tobago
<u>Asio flammeus ponapensis</u>	Ponape Short-eared Owl	R	Caroline Is
<u>Athene blewitti</u>	Forest Little Owl	I	India
<u>Bubo vosseleri</u>	Nduk Eagle Owl	R	Tanzania
<u>Glaucidium albertinum</u>	Albertine Owllet	R	Rwanda, Zaire
<u>Ninox novaeseelandia undulata</u>	Norfolk Boobook Owl	I	Norfolk I.
<u>Ninox squamipila natalis</u>	Christmas Island Owl	R	Christmas I. (Indian O.)
<u>Otus elegans botelensis</u>	Lanyu Scops Owl	E	Taiwan
<u>Otus hartlaubi</u>	Sao Tome Scops Owl	R	Sao Tome
<u>Otus insularis</u>	Seychelles Scops Owl	R	Seychelles
<u>Otus ireneae</u>	Soko Scops Owl	E	Kenya
<u>Otus magicus beccarii</u>	Papuan Scops Owl	I	Irian Jaya
<u>Otus nudipes newtoni</u>	Virgin Islands Screech Owl	R	Virgin Is, Puerto Rico
<u>Otus pauliani</u>	Grand Comoro Scops Owl	R	Comoro Is
<u>Otus rutilus capnodes</u>	Anjouan Scops Owl	E	Comoro Is
<u>Scotopelia ussheri</u>	Rufous Fishing Owl	R	West Africa

Order CAPRIMULGIFORMES

Family Caprimulgidae

<u>Caprimulgus noctitherus</u>	Puerto Rican Whippoorwill	R	Puerto Rico
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Order APODIFORMES

Family Apodidae

<u>Apus sladeniae</u>	Fernando Po Swift	K	West Africa, Angola
<u>Collocalia elaphra</u>	Seychelles Swiftlet	R	Seychelles
<u>Schoutedenapus schoutedeni</u>	Schouteden's Swift	I	Zaire

Family Trochilidae

<u>Coeligena prunellei</u>	Black Inca	I	Colombia
<u>Eulidia yarrellii</u>	Chilean Woodstar	E	Chile
<u>Glaucis dohrnii</u>	Hook-billed Hermit	E	Brazil
<u>Phaethornis margarettae</u>	Klabin Farm Long-tailed Hermit	E	Brazil
<u>Phaethornis nigrostris</u>	Black-billed Hermit	R	Brazil
<u>Threnetes grizeki</u>	Black Barbthroat	E	Brazil

Order TROGONIFORMES

Family Trogonidae

<u>Pharomacrus mocinno</u>	Resplendent Quetzal	V	Central America
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Order CORACIIFORMES

Family Alcedinidae

<u>Halcyon cinnamomina cinnamomina</u>	Giant Micronesian Kingfisher	E	Guam
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Family Coraciidae

Eurystomus orientalis irisi

Family Brachypteraciidae

Atelornis crossleyi

Brachypteracias leptosomus

Brachypteracias squamiger

Uratelornis chimaera

Family Bucerotidae

Rhinoplax vigil

Order PICIFORMES

Family Capitonidae

Pogoniulus makawai

Semnorhis ramphastinus

Stactolaema olivacea woodwardi

Family Indicatoridae

Melignomon eisentrauti

Family Picidae

Campephilus imperialis

Campephilus principalis

Dendrocopos leucotos owstoni

Dryocopus galeatus

Dryocopus javensis richardsi

Melanerpes supercilianis bahamensis

Melanerpes supercilianis nyeanus

Picoides borealis

Picoides tridactylus inouyei

Picus avokera takatsukasae

Sapheopipo noguchii

Order PASSERIFORMES

Family Eurylaimidae

Pseudocalyptomena graueri

Family Dendrocolaptidae

Xiphorhynchus picus altirostris

Ceylon Broad-billed Roller	I	India, Sri Lanka
Rufous-headed Ground Roller	R	Madagascar
Short-legged Ground Roller	R	Madagascar
Scaly Ground Roller	R	Madagascar
Long-tailed Ground Roller	R	Madagascar
Helmeted Hornbill	I	South-east Asia
White-chested Tinkerbird	I	Zambia
Toucan Barbet	V	Colombia, Ecuador
Ngoye Green Barbet	R	South Africa
Yellow-footed Honeyguide	K	Cameroon, Ghana, Liberia
Imperial Woodpecker	E	Mexico
Ivory-billed Woodpecker	E	Cuba, U.S.A.
Owston's White-backed Woodpecker	R	Ryukyu Is
Helmeted Woodpecker	I	South America
Tristram's Woodpecker	E	North Korea, South Korea
Grand Bahama Red-bellied Woodpecker	I	Bahamas
San Salvador Red-bellied Woodpecker	R	Bahamas
Red-cockaded Woodpecker	V	U.S.A.
Inouye's Three-toed Woodpecker	R	Japan
Takatsukasae's Green Woodpecker	R	Ryukyu Is
Okinawa Woodpecker	E	Ryukyu Is
African Green Broadbill	R	Uganda, Zaïre
Trinidad Straight-billed Woodcreeper	R	Trinidad & Tobago

Family Formicariidae

- Formicivora iheringi
- Grallaria alleni
- Grallaria guatemalensis aripoensis
- Grallaria milleri
- Myrmotherula erythronotos
- Pyriglena atra
- Rhopornis ardesiaca

Family Rhinocryptidae

- Merulaxis stresemanni
- Scytalopus novacapitalis

Family Cotingidae

- Calyptura cristata
- Cephalopterus penduliger
- Cotinga maculata
- Procnias averano averano
- Xipholena atropurpurea

Family Tyrannidae

- Polystictus pectoralis bogotensis

Family Pittidae

- pitta gurneyi

Family Xenicidae

- Xenicus longipes

Family Philepittidae

- Neodrepanis hypoxantha

Family Atrichornithidae

- Atrichornis clamosus
- Atrichornis rufescens

Narrow-billed Antwren	V	Brazil
Moustached Antpitta	I	Colombia
Trinidad Scaled Antpitta	R	Trinidad/Tobago
Brown-banded Antpitta	I	Colombia
Black-hooded Antwren	E	Brazil
Fringe-backed Fire-eye	E	Brazil
Slender Antbird	V	Brazil
Stresemann's Bristlefront	I	Brazil
Brasilia Tapaculo	I	Brazil
Kinglet Calyptura	I	Brazil
Long-wattled Umbrellabird	V	Colombia, Ecuador
Banded Cotinga	V	Brazil
Marcgrave's Bearded Bellbird	V	Brazil
White-winged Cotinga	V	Brazil
Bogota Bearded Tachuri	I	Colombia
Gurney's Pitta	I	Burma, Thailand
New Zealand Bush Wren	Ex	[New Zealand]
Yellow-bellied Sunbird-asity	I	Madagascar
Noisy Scrub Bird	E	Australia
Rufous Scrub Bird	R	Australia

Family Alaudidae

<u>Alauda razae</u>	Raso Lark	E	Raso (Cape Verde Is)
<u>Heteromirafra archeri</u>	Somali Long-clawed Lark	I	Somalia
<u>Heteromirafra ruddi</u>	South African Long-clawed Lark	I	South Africa
<u>Heteromirafra sidamoensis</u>	Sidamo Long-clawed Lark	I	Ethiopia
<u>Mirafra ashi</u>	Ash's Lark	K	Somalia
<u>Mirafra degodiensis</u>	Degodi Lark	K	Ethiopia
<u>Spizocorys fringillaris</u>	Botha's Lark	I	South Africa

Family Hirundinidae

<u>Hirundo megalensis</u>	White-tailed Swallow	R	Ethiopia
<u>Kalochelidon euchyrysea</u>	Jamaica Golden Swallow	I	Jamaica
<u>Pseudochelidon sirintarae</u>	White-eyed River Martin	I	Thailand

Family Motacillidae

<u>Anthus sokokensis</u>	Sokoke Pipit	V	Kenya, Tanzania
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Family Campephagidae

<u>Campephaga lobata</u>	Western Wattled Cuckoo-shrike	V	West Africa
<u>Coracina newtoni</u>	Reunion Cuckoo-shrike	V	Reunion
<u>Coracina typica</u>	Mauritius Cuckoo-shrike	V	Mauritius

Family Pycnonotidae

<u>Chlorocichla prigoginei</u>	Prigogine's Greenbul	V	Zaire
<u>Criniger olivaceus</u>	Yellow-throated Olive Greenbul	V	West Africa
<u>Hypsipetes olivaceus</u>	Mauritius Black Bulbul	V	Mauritius
<u>Phyllastrephus apperti</u>	Appert's Greenbul	R	Madagascar
<u>Phyllastrephus cinereiceps</u>	Grey-crowned Greenbul	R	Madagascar
<u>Phyllastrephus tenebrosus</u>	Dusky Greenbul	R	Madagascar

Family Laniidae

<u>Lanius ludovicianus mearnsi</u>	San Clemente Loggerhead Shrike	E	U.S.A.
<u>Lanius newtoni</u>	Sao Tome Fiscal Shrike	I	Sao Tome
<u>Malaconotus alius</u>	Uluguru Bush-shrike	R	Tanzania
<u>Malaconotus gladiator</u>	Green-breasted Bush-shrike	R	Cameroon, Nigeria
<u>Malaconotus kupeensis</u>	Mount Kupe Bush-shrike	I	Cameroon
<u>Malaconotus monteiri</u>	Monteiro's Bush-shrike	I	Angola, Cameroon
<u>Prionops gabela</u>	Gabela Helmet-shrike	I	Angola

Family Vangidae

<u>Xenopirostris damii</u>	Van Dam's Vanga	R	Madagascar
<u>Xenopirostris polleni</u>	Pollen's Vanga	R	Madagascar

Family Cinclidae

Cinclus schultzi

Family Troglodytidae

Cistothorus apolinari

Ferminia cerverai

Troglodytes aedon guadeloupensis

Troglodytes aedon mesoleucus

Troglodytes troglodytes fridariensis

Family Mimidae

Cinlocerthia ruficauda gutturalis

Nesomimus trifasciatus trifasciatus

Ramphocinclus brachyurus

Family Muscicapidae

Acrocephalus caffer aquilonis

Acrocephalus caffer longirostris

Acrocephalus caffer postremus

Acrocephalus kingii

Acrocephalus rodericanus

Acrocephalus sechellensis

Alethe choloensis

Amaurocichla bocagii

Amytornis goideri

Apalis argentea

Apalis kaboboensis

Apalis karamojae

Apalis moreau

Bathmocercus winifredae

Bowdleria punctata wilsoni

Bradypterus grandis

Bradypterus graueri

Chloropeta gracilirostris

Cichlherminia herminieri

sanctaeluciae

Cisticola restricta

Copsychus sechellarum

Cossypha heinrichi

Crossleyia xanthophrys

Dasyornis brachypterus longirostris

Dasyornis broadbenti littoralis

Rufous-throated Dipper

I Argentina

Apolinar's Marsh Wren

V Colombia

Zapata Wren

R Cuba

Guadeloupe Wren

E Guadeloupe

St Lucia Wren

E St Lucia

Fair Isle Wren

R U.K.

Martinique Trembler

E Martinique

Charles Mockingbird

R Galapagos Is

White-breasted Trembler

E Martinique, St Lucia

Eiao Polynesian Warbler

E Marquesas Is

Moorea Polynesian Warbler

E Society Is

Hatutu Polynesian Warbler

R Marquesas Is

Nihoa Millerbird

R Hawaii

Rodrigues Brush Warbler

E Rodrigues

Seychelles Brush Warbler

R Seychelles

Thyolo Alethe

E Malawi, Mozambique

Sao Tome Short-tail

I Sao Tome

Eyrean Grass Wren

I Australia

Kungwe Apalis

R Central & East Africa

Kabobo Apalis

R Zaire

Karamoja Apalis

K Tanzania, Uganda

Long-billed Apalis

R Mozambique, Tanzania

Mrs Moreau's Warbler

R Tanzania

Codfish Island Fernbird

E New Zealand

Dja River Warbler

K Cameroon, Gabon

Grauer's Swamp Warbler

V Central & East Africa

Papyrus Yellow Warbler

R Central & East Africa

St Lucia Forest Thrush

E St Lucia

Tana River Cisticola

K Kenya

Seychelles Magpie Robin

E Seychelles

White-headed Robin-chat

I Angola, Zaire

Madagascar Yellowbrow

I Madagascar

Western Bristlebird

R Australia

Western Rufous Bristlebird

E Australia

Dryocichloides lowei
Dryocichloides montanus
Eremomela turneri
Erethacus komadori subrufa
Humboldtia flavirostris
Lioptilus gilberti
Macrosphenus pulitzeri
Megaluruspriyeri priyeri
Melaenorhynchus annamarulae
Metabolus rugensis
Modulatrix orostruthus
Monticola bensoni
Muscicapula lendu
Myadestes genibarbis sibilans
Nesillas alabaricus
Nesocichla eremita eremita
Newtonia fanovanae
Paradoxornis heudei heudei
Petroica traversi
Phaeornis obscurus myadestina
Phaeornis obscurus rutha
Phaeornis palmeri
Picathartes gymnocephalus
Picathartes oreas
Platysteira laticincta
Pomarea dimidiata
Pomarea iphis fluxa
Pomarea mendozae mendozae
Pomarea mendozae mira
Pomarea mendozae nukuhiva
Pomarea nigra nigra
Prinia "fluviatilis"
Regulus calendula obscura
Saxicola dacotiae
Sheppardia gunningi
Swynnertonia swynnertonii
Terpsiphone bourbonnensis desolata
Terpsiphone corvina
Trichocichla rufa
Turdoides hindei
Turdus fischeri
Turdus helleri

Iringa Ground Robin
 Usambara Ground Robin
 Turner's Eremomela
 Southern Ryukyu Robin
 Grand Comoro Flycatcher
 White-throated Mountain Babbler
 Pulitzer's Longbill
 Japanese Marsh Warbler
 Nimba Flycatcher
 Truk Monarch
 Dappled Mountain Robin
 Benson's Rockthrush
 Chapin's Flycatcher
 St Vincent Solitaire
 Aldabra Brush Warbler
 Tristan Starling
 Fanovana Newtonia
 Lower Yangtze Xiang Crow-tit
 Chatham Island Black Robin
 Kauai Thrush
 Molokai Thrush
 Small Kauai Thrush
 White-necked Picathartes
 Grey-necked Picathartes
 Banded Wattle-eye
 Rarotonga Flycatcher
 Eiao Flycatcher
 Hivaoa Flycatcher
 Upou Flycatcher
 Nukuhiva Flycatcher
 Tahiti Flycatcher
 River Prinia
 Guadeloupe Kinglet
 Fuerteventura Stonechat
 East Coast Akalat
 Swynnerton's Forest Robin
 Mauritius Paradise Flycatcher
 Seychelles Black Paradise Flycatcher
 Long-legged Warbler
 Hinde's Pied Babbler
 Spotted Ground-thrush
 Taita Thrush

R Tanzania
 R Tanzania
 R Kenya, Uganda, Zaire
 E Ryukyu Is
 R Comoro Is
 R Cameroon, Nigeria
 I Angola
 R Japan
 I Ivory Coast, Liberia
 R Caroline Is
 R Mozambique, Tanzania
 K Madagascar
 R Kenya, Uganda, Zaire
 R St Vincent
 E Seychelles
 R Tristan da Cunha
 I Madagascar
 I China
 E Chatham Is
 E Hawaii
 E Hawaii
 E Hawaii
 V West Africa
 V West Africa
 E Cameroon
 V Cook I.
 I Marquesas Is
 E Marquesas Is
 R Marquesas Is
 E Marquesas Is
 E Society Is
 K Cameroon, Chad, Niger
 I Guadeloupe
 R Canary Is
 R East Africa
 R Mozambique, Tanzania, Zimbabwe
 R Mauritius
 R Seychelles
 E Fiji
 V Kenya
 R East & South Africa
 E Kenya

Turdus kibalensis
Turdus oberlaenderi
Turdus poliocephalus poliocephalus
Zoothera dauma major

Family Sittidae

Sitta ledanti

Family Nectariniidae

Anthreptes pallidigaster
Anthreptes rubritorques
Nectarinia prigoginei
Nectarinia rockefelleri
Nectarinia rufipennis

Family Zosteropidae

Rukia longirostris
Rukia ruki
Speirops brunneus
Zosterops albugularis
Zosterops chloronothos
Zosterops conspicillata rotensis
Zosterops ficedulinus
Zosterops luteirostris luteirostris
Zosterops modestus
Zosterops mouroniensis

Family Meliphagidae

Apalopteron familiare familiare
Meliphaga cassidix
Moho braccatus
Notiomystis cincta

Family Emberizidae

Ammodramus maritimus mirabilis
Ammodramus maritimus nigrescens
Amphispa bella clementeae
Atlappetes flaviceps
Camarhynchus heliobates
Geospiza magnirostris magnirostris
Melospiza melodia amaka
Nemosia rourei
Neospiza acunhae

Kibale Ground-thrush	I	Uganda
Forest Ground-thrush	R	Uganda, Zaire
Grey-headed Blackbird	E	Norfolk I.
Amami Ground-thrush	I	Ryukyu Is
Algerian Nuthatch	R	Algeria
Amani Sunbird	R	Kenya, Tanzania
Banded Green Sunbird	R	Tanzania
Marunga Sunbird	E	Zaire
Rockefeller's Sunbird	R	Zaire
Rufous-winged Sunbird	R	Tanzania
Ponape Greater White-eye	R	Caroline Is
Truk Greater White-eye	E	Caroline Is
Fernando Po Speirops	R	Eq. Guinea
White-breasted Silver-eye	E	Norfolk I.
Mauritius Olive White-eye	V	Mauritius
Rota Bridled White-eye	I	Marianas
Sao Tome White-eye	I	Sao Tome
Gizo White-eye	E	Solomon Is
Seychelles White-eye	R	Seychelles
Mount Karthala White-eye	R	Comoro Is
Mukojima Bonin Honeyeater	E	Japan
Helmeted Honeyeater	E	Australia
Kauai 'O'o	E	Hawaii
Stitchbird	V	New Zealand
Cape Sable Seaside Sparrow	R	U.S.A.
Dusky Seaside Sparrow	E	U.S.A.
San Clemente Sage Sparrow	E	U.S.A.
Olive-headed Brush Finch	I	Colombia
Mangrove Finch	R	Galapagos Is
Floreana Large Ground Finch	I	Galapagos Is
Amak Song Sparrow	Ex	[U.S.A.]
Cherry-throated Tanager	E	Brazil
Tristan Bunting	R	Tristan da Cunha

<u>Neospiza concolor</u>				
<u>Neospiza wilkinsi</u>				
<u>Rowlettia goughensis</u>				
<u>Sporophila insulata</u>				
<u>Tangara cabanisi</u>				
<u>Tangara fastuosa</u>				
<u>Torreornis inexpecta</u>				

Family Parulidae

<u>Dendroica kirtlandii</u>				
<u>Dendroica petechia petechia</u>				
<u>Geothlypis rostrata rostrata</u>				
<u>Leucopoea semperi</u>				
<u>Vermivora bachmanii</u>				

Family Drepanididae

<u>Hemignathus lucidus</u>				
<u>Hemignathus procerus</u>				
<u>Hemignathus wilsoni</u>				
<u>Loxioides bailleui</u>				
<u>Loxops coccinea coccinea</u>				
<u>Loxops coccinea ochracea</u>				
<u>Melamprosops phaeosoma</u>				
<u>Palmeria dolei</u>				
<u>Paroreomyza maculata bairdi</u>				
<u>Paroreomyza maculata flammea</u>				
<u>Paroreomyza maculata maculata</u>				
<u>Pseudonestor xanthophrys</u>				
<u>Psittirostra psittacea</u>				

Family Icteridae

<u>Agelaius xanthomus</u>				
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Family Fringillidae

<u>Acanthis johannis</u>				
<u>Fringilla teydea</u>				
<u>Pyrrhula pyrrhula murina</u>				
<u>Serinus ankoberensis</u>				
<u>Serinus flavigula</u>				
<u>Spinus cucullatus</u>				

Sao Tome Grosbeak				
Grosbeak Bunting				
Gough Bunting				
Tumaco Seedeater				
Azure-rumped Tanager				
Seven-colored Tanager				
Zapata Sparrow				

Kirtland's Warbler				
Barbados Yellow Warbler				
New Providence Bahama Yellowthroat				
Semper's Warbler				
Bachman's Warbler				

Nukupu'u				
Kauai 'Alialoa				
'Akiapola'au				
Palila				
Hawaii 'Akepa				
Maui 'Akepa				
Po'o Uli				
Crested Honeycreeper				
Kauai Creeper				
Molokai Creeper				
Oahu Creeper				
Maui Parrotbill				
'O'u				

Yellow-shouldered Blackbird				
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Warsangli Linnet				
Blue Chaffinch				
Sao Miguel Bullfinch				
Ankober Serin				
Yellow-throated Serin				
Red Siskin				

I	Sao Tome			
R	Tristan da Cunha			
R	Tristan da Cunha			
I	Colombia			
I	Guatemala			
V	Brazil			
R	Cuba			

E	Bahamas, North America			
E	Barbados			
I	Bahamas			
E	St Lucia			
E	Bahamas, Cuba, U.S.A.			

E	Hawaii			
E	Hawaii			
E	Hawaii			
E	Hawaii			
V	Hawaii			
E	Hawaii			
R	Hawaii			
V	Hawaii			
R	Hawaii			
E	Hawaii			
E	Hawaii			
V	Hawaii			
E	Hawaii			

V	Puerto Rico			
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R	Somalia			
R	Canary Is			
E	Azores			
R	Ethiopia			
I	Ethiopia			
E	Colombia, Venezuela, Trinidad & Tobago			

Family Estrildidae

- Erythrura kleinschmidti
- Erythrura trichroa pelewensis
- Estrilda nigriloris
- Estrilda poliopareia

Family Ploceidae

- Foudia flavicans
 - Foudia rubra
 - Foudia sechellarum
 - Malimbus ballmanni
 - Malimbus ibadanensis
 - Ploceus aureonucha
 - Ploceus bannermani
 - Ploceus batesi
 - Ploceus flavipes
 - Ploceus golandi
 - Ploceus nicolli
 - Ploceus nigritum
 - Ploceus ruweti
 - Ploceus subpersonatus
- Pink-billed Parrotfinch
Palau Blue-faced Parrotfinch
Black-lored Waxbill
Anambra Waxbill
- Rodrigues Fody
Mauritius Fody
Seychelles Fody
Gola Malimbe
Ibadan Malimbe
Golden-naped Weaver
Bannerman's Weaver
Bates's Weaver
Yellow-legged Weaver
Clarke's Weaver
Tanzanian Mountain Weaver
Black-chinned Weaver
Lake Lufira Weaver
Loango Slender-billed Weaver
- Rodrigues
Mauritius
Seychelles
Ivory Coast, Liberia, Sierra Leone
Nigeria
Zaire
Cameroon, Nigeria
Cameroon
Zaire
Kenya
Tanzania
Angola, Congo
Zaire
Angola, Congo, Gabon, Zaire

Family Sturnidae

- Aplonis pelzelni
 - Aplonis santovestris
 - Leucopsar rothschildi
- Ponape Mountain Starling
Santo Mountain Starling
Rothschild's Starling

Family Dicruridae

- Dicrurus fuscipennis
 - Dicrurus waldeni
- Grand Comoro Drongo
Mayotte Drongo

Family Callaeidae

- Callaeas cinerea
 - Creadion carunculatus
- Kokako
Saddleback

Family Artamidae

- Artamus leucorhynchus pelewensis
- Palau White-breasted Wood Swallow

Family Cracticidae

- Strepera graculina crissalis
- Lord Howe Currawong

Lord Howe I.

Family Corvidae

- Corvus kubaryi
- Corvus tropicus
- Zavattariornis stresemanni

- Marianas Crow
- Hawaiian Crow
- Ethiopian Bush-crow

- E Guam
- E Hawaii
- R Ethiopia

CLASS REPTILIA

Order TESTUDINES

Family Kinosternidae

- Kinosternon angustipons
- Kinosternon creaseri
- Kinosternon dunni
- Kinosternon flavescens spooneri
- Sternotherus minor depressus

- Narrow-bridged Mud Turtle
 - Creaser's Mud Turtle
 - Dunn's Mud Turtle
 - Illinois Mud Turtle
 - Flattened Musk Turtle
- R Costa Rica, Nicaragua, Panama
 - R Mexico
 - R Colombia
 - E U.S.A.
 - I U.S.A.

Family Dermatemnydidae

- Dermatemmys mawii

- Central American River Turtle
- V Central America

Family Emydidae

- Batagur baska
- Callagur borneoensis
- Clemmys muhlenbergii
- Heosemys silvatica
- Pseudemys alabamensis
- Pseudemys felis
- Pseudemys malonei
- Pseudemys rubriventris bangsi
- Pseudemys scripta callirostris
- Rhinoclemmys areolata
- Rhinoclemmys rubida
- Terrapene coahuila

- River Terrapin
 - Painted Terrapin
 - Bog Turtle
 - Cane Turtle
 - Alabama Red-bellied Turtle
 - Cat Island Turtle
 - Inagua Island Turtle
 - Plymouth Red-bellied Turtle
 - South American Red-lined Turtle
 - Furrowed Wood Turtle
 - Mexican Spotted Wood Turtle
 - Aquatic Box Turtle
- E South-east Asia
 - V South-east Asia
 - I U.S.A.
 - I U.S.A.
 - I U.S.A.
 - R Bahamas
 - R Bahamas
 - R U.S.A.
 - V Colombia, Venezuela
 - K Central America
 - K Mexico
 - V Mexico

Family Testudinidae

- Geochelone carbonaria
- Geochelone chilensis
- Geochelone elephantopus
- Geochelone emys
- Geochelone forstenii
- Geochelone gigantea
- Geochelone impressa
- Geochelone platynota

- Red-foot Tortoise
 - Chaco Tortoise
 - Galapagos Giant Tortoise
 - Burmese Brown Tortoise
 - Sulawesi Tortoise
 - Aldabra Giant Tortoise
 - Impressed Tortoise
 - Burmese Starred Tortoise
- K South America
 - K Argentina, Bolivia, Paraguay
 - E Galapagos Is
 - K South-east Asia
 - R Sulawesi
 - R Aldabra
 - K South-east Asia
 - K Burma

Geochelone radiata
Geochelone travancorica
Geochelone yniphora
Gopherus agassizii
Gopherus berlandieri
Gopherus flavomarginatus
Gopherus polyphemus
Malacochersus tornieri
Psammobates geometricus
Pyxis arachnoides
Pyxis planicauda
Testudo graeca graeca
Testudo hermanni
Testudo kleinmanni

Family Cheloniidae

Caretta caretta
Chelonia mydas
Eretmochelys imbricata
Lepidochelys kempi
Lepidochelys olivacea

Family Dermochelyidae

Dermochelys coriacea

Family Carettochelyidae

Carettochelys insculpta

Family Trionychidae

Trionyx nigricans

Family Pelomedusidae

Erymnochelys madagascariensis
Podocnemis erythrocephala
Podocnemis expansa
Podocnemis lewyana
Podocnemis sextuberculata
Podocnemis unifilis

Family Chelidae

Phrynops dahl
Phrynops hogei
Phrynops rufipes

Radiated Tortoise
Travancore Tortoise
Angonoka
Desert Tortoise
Texas Gopher Tortoise
Texas Tortoise
Florida Gopher Tortoise
Pancake Tortoise
Geometric Tortoise
Spider Tortoise
Madagascar Flat-shelled Tortoise
Spur-thighed Tortoise
Hermann's Tortoise
Egyptian Tortoise

Loggerhead Turtle
Green Turtle
Hawksbill Turtle
Kemp's Ridley
Olive Ridley

Leatherback

New Guinea Plateless Turtle

Dark Soft-shell Turtle

Madagascar Sideneck Turtle
Red-headed Amazon Turtle
South American River Turtle
Magdalena River Turtle

Yellow-spotted Sideneck Turtle

Dahl's Toad-headed Turtle
Hoge's Sideneck Turtle
Red-headed Sideneck Turtle

V Madagascar
K India
E Madagascar
V Mexico, U.S.A.
I Mexico, U.S.A.
E Mexico
V U.S.A.
K Kenya, Tanzania
V South Africa
I Madagascar
I Madagascar
V Europe, North Africa
V Europe
I Egypt, Israel, Libya

E Tropical & Temperate Seas

K Australia, New Guinea

R Bangladesh

I Madagascar
K Brazil, Venezuela
E Amazon Basin
I Colombia
K Brazil, Colombia, Peru
V Amazon Basin

I Colombia
I Brazil
K Brazil, Colombia

Chaco Sideneck Turtle
Spix's Sideneck Turtle
Western Swamp Turtle

Platemys pallidipectoris
Platemys spixii
Pseudemadura umbrina

R Argentina, Paraguay
K Argentina, Brazil, Uruguay
E Western Australia

Order CROCODYLIA

Family Alligatoridae

Alligator sinensis
Caiman crocodilus
Caiman latirostris
Melanosuchus niger

Chinese Alligator
Spectacled Caiman
Broad-nosed Caiman
Black Caiman

E China
T Central & South America
E Southern South America
E South America

Family Crocodylidae

Crocodylus acutus
Crocodylus cataphractus
Crocodylus intermedius
Crocodylus johnsoni
Crocodylus mindorensis
Crocodylus moreletii
Crocodylus niloticus
Crocodylus novaeguineae
Crocodylus palustris
Crocodylus porosus
Crocodylus rhombifer
Crocodylus siamensis
Osteolaemus tetraspis
Tomistoma schlegelii

American Crocodile
African Slender-snouted Crocodile
Orinoco Crocodile
Australian Fresh-water Crocodile
Philippines Crocodile
Morelet's Crocodile
Nile Crocodile
New Guinea Crocodile
Mugger
Estuarine Crocodile
Cuban Crocodile
Siamese Crocodile
West African Dwarf Crocodile
False Gharial

E Caribbean, Central America, U.S.A.
I Africa
E Colombia, Venezuela
V Australia
E Philippines
E Central America
V Africa, Madagascar
V New Guinea
V South Asia
E Asia, Australia, West Pacific
E Cuba
E South-east Asia
I West & Central Africa
E South-east Asia

Family Gavialidae

Gavialis gangeticus

Gharial

E South Asia

Order RHYNCHOCEPHALIA

Family Spheronodontidae

Sphenodon punctatus

Tuatara

R New Zealand

Order SAURIA

Family Gekkonidae

Cyrtodactylus serpensinsula
Oedura reticulata
Phelsuma edwardnewtonii
Phelsuma quentheri

Serpent Island Gecko
Reticulated Velvet Gecko
Rodrigues Day Gecko
Round Island Day Gecko

R Round I., Serpent I.
V Australia
E Rodrigues
R Round I.

Family Xantusiidae

Xantusia riversiana

Island Night Lizard

R U.S.A.

Family Agamidae

Hydrosaurus pustulatus

Family Iguanidae

Amblyrhynchus cristatus

Anolis roosevelti

Brachylophus fasciatus

Conolophus pallidus

Conolophus subcristatus

Cyclura carinata

Cyclura cornuta

Cyclura cychlura

Cyclura nubila

Cyclura pinguis

Cyclura ricordii

Cyclura rileyi

Gambelia silus

Phrynosoma cornatum blainvillei

Family Lacertidae

Gallotia simonyi

Podarcis filfolensis filfolensis

Family Teiidae

Ameiva polops

Cnemidophorus hyperythrus

Family Scincidae

Gongylomorphus bojerii fontenayi

Leiopisma telfairii

Macrosclincus coctaei

Family Anguidae

Gerrhonotus panamintus

Family Anniellidae

Anniella pulchra nigra

Family Helodermatidae

Heloderma horridum

Heloderma suspectum

Sail-fin Lizard	V	Philippines
Galapagos Marine Iguana	R	Galapagos Is
Culebra Island Giant Anole	E	Culebra I. (Puerto Rico)
Fiji Banded Iguana	E	Fiji, Tonga
Barrington Land Iguana	R	Galapagos Is
Galapagos Land Iguana	V	Galapagos Is
Turks & Caicos Rock Iguana	R	Bahamas, Turks & Caicos
Rhinoceros Rock Iguana	T	Hispaniola, Mona I.
Andros Ground Iguana	R	Bahamas
Cuban Ground Iguana	V	Cayman Is, Cuba
Anegada Ground Iguana	E	Anegada (British Virgin Is)
Hispaniolan Ground Iguana	K	Hispaniola
San Joaquin Leopard Lizard	T	Bahamas
San Diego Horned Lizard	E	U.S.A.
	K	Mexico, U.S.A.
Hierro Giant Lizard	E	Hierro (Canary Is)
Filfola Lizard	R	Filfola I. (Malta)
St Croix Ground Lizard	E	U.S. Virgin Is
Orange-throated Whiptail	V	Mexico, U.S.A.
Macab Forest Skink	R	Mauritius
Round Island Skink	R	Round I.
Cape Verde Giant Skink	I	Cape Verde Is
Panamint Alligator Lizard	K	U.S.A.
Black Legless Lizard	E	U.S.A.
Beaded Lizard	I	Guatemala, Mexico
Gila Monster	V	Mexico, U.S.A.

Family Varanidae

- Varanus griseus caspius
- Varanus komodoensis

Order SERPENTES

Family Typhlopidae

- Typhlops monensis

Family Boidae

- Acrantophis dumerili
- Acrantophis madagascariensis
- Bolyeria multocarinata
- Casarea dussumieri
- Charina bottae umbratica
- Epicrates angulifer
- Epicrates inornatus
- Epicrates monensis
- Epicrates striatus fosteri
- Epicrates subflavus
- Python molurus
- Sanzinia madagascariensis

Family Colubridae

- Drymarchon corais couperi
- Masticophis flagellum ruddocki
- Masticophis lateralis euryxanthus
- Nerodia fasciata taeniata
- Nerodia sipedon insularum
- Thamnophis couchi gigas
- Thamnophis couchi hammondi
- Thamnophis sirtalis tetrataenia

Family Elapidae

- Naja oxiana
- Ogmodon vitianus

Family Viperidae

- Bothrops insularis
- Crotalus unicolor
- Crotalus willardi
- Vipera ammodytes transcaucasiana
- Vipera latifii
- Vipera lebetina schweizeri
- Vipera raddei

- Central Asian Monitor
- Komodo Dragon

Mona Blind Snake

- Madagascar Boa
- Round Island Boa
- Round Island Keel-scaled Boa
- Southern Rubber Boa
- Cuban Tree Boa
- Puerto Rican Boa
- Mona Boa
- Bimini Boa
- Jamaican Boa
- Indian Python

- Eastern Indigo Snake
- San Joaquin Coachwhip
- Almeda Striped Racer
- Atlantic Saltmarsh Snake
- Lake Erie Water Snake
- Giant Garter Snake
- Two-striped Garter Snake
- San Francisco Garter Snake

Central Asian Cobra
Fiji Snake

- Queimada Island Bothrops
- Aruba Island Rattlesnake
- Arizona Ridge-nosed Rattlesnake
- Transcaucasian Long-nosed Viper
- Latifi's Viper
- Lebetine Viper
- Armenian Viper

- V West Asia
- R Indonesia

R Mona I.

- K Madagascar
- K Madagascar
- E Round I.
- E Round I.
- R U.S.A.
- I Cuba
- E Puerto Rico
- R Mona I.
- R Bahamas
- V Jamaica
- V South & South-east Asia
- K Madagascar

- V U.S.A.
- R U.S.A.
- R U.S.A.
- R U.S.A.
- K U.S.A.
- R U.S.A.
- R Mexico, U.S.A.
- E U.S.A.

E Central Asia
V Fiji

- K Queimada I. (Brazil)
- R Aruba I. (Netherlands Antilles)
- T Mexico, U.S.A.
- R Turkey, U.S.S.R.
- E Iran
- V Cyclades Is
- R Turkey, U.S.S.R.

CLASS AMPHIBIA

Order CAUDATA

Family Cryptobranchidae

- Andrias davidianus
- Andrias japonicus

Chinese Giant Salamander I China
Japanese Giant Salamander R Japan

Family Ambystomatidae

- Ambystoma californiense
- Ambystoma dumerilii dumerilii
- Ambystoma lermaensis
- Ambystoma macrodactylum croceum
- Ambystoma mexicanum

California Tiger Salamander V U.S.A.
Lake Patzcuaro Salamander R Mexico
Lake Lerma Salamander R Mexico
Santa Cruz Long-toed Salamander E U.S.A.
Axolotl R Mexico

Family Salamandridae

- Chioglossa lusitanica

Gold-striped Salamander V Portugal, Spain

Family Plethodontidae

- Batrachoseps aridus
- Batrachoseps simatus
- Batrachoseps stebbinsi
- Eurycea nana
- Hydromantes brunus
- Hydromantes shastae
- Phaeognathus hubrichti
- Plethodon larselli
- Plethodon neomexicanus
- Plethodon richmondi nettingi
- Typhlomolge rathbuni
- Typhlotriton spelaeus

Desert Slender Salamander E U.S.A.
Kern Canyon Slender Salamander R U.S.A.
Tehachapi Slender Salamander R U.S.A.
San Marcos Salamander R U.S.A.
Limestone Salamander R U.S.A.
Shasta Salamander R U.S.A.
Red Hills Salamander R U.S.A.
Larch Mountain Salamander I U.S.A.
Jemez Mountains Salamander V U.S.A.
Cheat Mountain Salamander K U.S.A.
Texas Blind Salamander E U.S.A.
Grotto Salamander K U.S.A.

Family Proteidae

- Proteus anguinus

Olmo V Italy, Yugoslavia

Order ANURA

Family Leiopelmatidae

- Leiopelma archeyi
- Leiopelma hamiltoni
- Leiopelma hochstetteri

Archey's Frog R New Zealand
Hamilton's Frog R New Zealand
Hochstetter's Frog R New Zealand

Family Pipidae

- Xenopus gilli

Cape Platanna V South Africa

Family Discoglossidae

Discoglossus nigriventer

Israel Painted Frog E Israel

Family Pelobatidae

Pelobates fuscus insubricus

Italian Spadefoot Toad E Italy

Family Leptodactylidae

Batrachophrynus macrostomus

Eleutherodactylus jasperii

Lake Juin Giant Frog K Peru
Golden Cocqui Frog R Puerto Rico

Family Myobatrachidae

Philoria frosti

Rheobatrachus silus

Baw-baw Frog R Australia
Platypus Frog V Australia

Family Bufonidae

Bufo boreas nelsoni

Bufo exsul

Bufo houstonensis

Bufo periglenes

Bufo retiformis

Nectophrynoides occidentalis

Amargosa Toad I U.S.A.
Black Toad V U.S.A.
Houston Toad E U.S.A.
Golden Toad E Costa Rica
Sonoran Green Toad V Mexico, U.S.A.
Mount Nimba Viviparous Toad V Guinea, Ivory Coast

Family Hylidae

Hyla andersoni

Pseudacris streckeri illinoensis

Pine Barrens Tree Frog R U.S.A.
Illinois Chorus Frog I U.S.A.

Family Ranidae

Conraua goliath

Nesomantis thomasseti

Rana latastei

Rana pipiens fisheri

Sooglossus gardineri

Sooglossus sechellensis

Goliath Frog V Cameroon, Eq. Guinea
Thomasset's Seychelles Frog I Seychelles
Italian Agile Frog V Italy, Switzerland, Yugoslavia
Vegas Valley Leopard Frog E U.S.A.
Gardiner's Seychelles Frog I Seychelles
Seychelles Frog I Seychelles

Family Hyperoliidae

Tachycinemis seychellensis

K Seychelles

CLASS CEPHALASPIDOMORPHI

Order PETROMYZONTIFORMES

Family Petromyzontidae

Lampetra minima

Miller Lake Lamprey

Ex [U.S.A.]

Fish

CLASS OSTEICHTHYES

Order ACIPENSERIFORMES

Family Acipenseridae

<u>Acipenser brevirostrum</u>	Shortnose Sturgeon	V	Canada, U.S.A.
<u>Acipenser fulvescens</u>	Lake Sturgeon	V	Canada, U.S.A.
<u>Acipenser oxyrinchus</u>	Atlantic Sturgeon	V	Canada, U.S.A.
<u>Acipenser schrencki</u>	Amur Sturgeon	V	U.S.S.R.
<u>Huso dauricus</u>	Kaluga	R	U.S.S.R.
<u>Scaphirhynchus albus</u>	Pallid Sturgeon	E	U.S.A.

Family Polyodontidae

<u>Polyodon spathula</u>	Paddlefish	I	U.S.A.
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Order OSTEOGLOSSIFORMES

Family Osteoglossidae

<u>Arapaima gigas</u>	Pirarucu	V	Amazon Basin
<u>Scleropages formosus</u>	Asian Bonytongue	K	South-east Asia

Family Notopteridae

<u>Notopterus blanci</u>	Featherback	R	Kampuchea, Thailand
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Order CYPRINIFORMES

Family Cyprinidae

<u>Acanthorutilus handlirschi</u>	Ciek	E	Turkey
<u>Barbus afer</u>	Eastern Cape Redfin	R	South Africa
<u>Barbus asper</u>	Small-scaled Redfin	V	South Africa
<u>Barbus burchelli</u>	Burchell's Redfin	R	South Africa
<u>Barbus burgii</u>	Berg River Redfin	R	South Africa
<u>Barbus calidus</u>	Clanwilliam Redfin	R	South Africa
<u>Barbus capensis</u>	Clanwilliam Yellowfish	R	South Africa
<u>Barbus cumingi</u>	Cuming's Two-banded Barb	V	Sri Lanka
<u>Barbus erubescens</u>	Twee River Redfin	V	South Africa
<u>Barbus nigrofasciatus</u>	Black Ruby Barb	V	Sri Lanka
<u>Barbus phlegathon</u>	Fiery Redfin	E	South Africa
<u>Barbus pleurotaenia</u>	Side Striped Barb	V	Sri Lanka
<u>Barbus tenuis</u>	Slender Redfin	R	South Africa
<u>Barbus titteya</u>	Cherry Barb	V	Sri Lanka
<u>Barbus treurenensis</u>	Treur River Barb	E	South Africa
<u>Barbus trevelyani</u>	Border Barb	E	South Africa
<u>Chela caeruleostigmata</u>		R	Thailand
<u>Dionda diaboli</u>	Devil's River Minnow	V	Mexico, U.S.A.
<u>Dionda dichroma</u>	Bicolor Minnow	R	Mexico

<u>Dionda mandibularis</u>	Flatjaw Minnow	E	Mexico
<u>Fremichthys acros</u>	Desert Dace	V	U.S.A.
<u>Evarra bustamantei</u>		Ex	[Mexico]
<u>Evarra eigenmanni</u>		Ex	[Mexico]
<u>Evarra tlahuacensis</u>		Ex	[Mexico]
<u>Gila alvordensis</u>	Alvord Chub	V	U.S.A.
<u>Gila bicolor (subspecies)</u>	Tui Chub	T*	U.S.A.
<u>Gila boraxobius</u>	Borax Lake Chub	V	U.S.A.
<u>Gila crassicauda</u>	Thicktail Chub	Ex	[U.S.A.]
<u>Gila cypha</u>	Humpback Chub	E	U.S.A.
<u>Gila ditaenia</u>	Sonora Chub	V	Mexico, U.S.A.
<u>Gila elegans</u>	Bonytail	E	U.S.A.
<u>Gila intermedia</u>	Gila Chub	V	U.S.A.
<u>Gila modesta</u>	Salttillo Chub	V	Mexico, U.S.A.
<u>Gila nigrescens</u>	Chihuahuan Chub	V	Mexico, U.S.A.
<u>Gila purpurea</u>	Yaqui Chub	V	Mexico, U.S.A.
<u>Gila robusta</u>	Roundtail Chub	V	U.S.A.
<u>Hemitremia flammea</u>	Flame Chub	R	U.S.A.
<u>Hybopsis cahni</u>	Slender Chub	V	U.S.A.
<u>Hybopsis crameri</u>	Oregon Chub	R	U.S.A.
<u>Hybopsis labrosa</u>	Thicklip Chub	R	U.S.A.
<u>Hybopsis monacha</u>	Spotfin Chub	E	U.S.A.
<u>Iotichthys phlegethontis</u>	Least Chub	V	U.S.A.
<u>Labeo fisheri</u>	Green Labeo	E	Sri Lanka
<u>Lepidomeda albivallis</u>	White River Spinedace	E	U.S.A.
<u>Lepidomeda altivelis</u>	Pahrnagat Spinedace	Ex	[U.S.A.]
<u>Lepidomeda mollispinis</u>	Virgin Spinedace	V	U.S.A.
<u>Lepidomeda vittata</u>	Little Colorado Spinedace	V	U.S.A.
<u>Meda fulgida</u>	Spikedace	V	U.S.A.
<u>Moapa coriacea</u>	Moapa Dace	V	U.S.A.
<u>Notropis aguirrepequenoi</u>	Pilon Shiner	V	Mexico
<u>Notropis bocagrande</u>	Bigmouth Shiner	V	Mexico
<u>Notropis caeruleus</u>	Blue Shiner	V	U.S.A.
<u>Notropis callitaenia</u>	Bluestripe Shiner	V	U.S.A.
<u>Notropis formosus</u>	Beautiful Shiner	V	Mexico, U.S.A.
<u>Notropis hubbsi</u>	Bluehead Shiner	R	U.S.A.
<u>Notropis jemezianus</u>	Rio Grande Shiner	I	U.S.A.
<u>Notropis mekistocholas</u>	Cape Fear Shiner	V	U.S.A.
<u>Notropis orca</u>	Phantom Shiner	Ex	[Mexico]
<u>Notropis perpallidus</u>	Peppered Shiner	V	U.S.A.
<u>Notropis proserpinus</u>	Proserpine Shiner	V	U.S.A.
<u>Notropis semperasper</u>	Roughhead Shiner	R	U.S.A.
<u>Notropis simus</u>	Bluntnose Shiner	E	Mexico

Order CHARACIFORMES

Family Characidae

- Catabasis acuminatus
- Gymnocharacinus bergi

E Brazil
V Argentina

Naked Characin

Order SILURIFORMES

Family Diplomystidae

- Diplomystes chilensis

Tollo de Agua Dulce

E Chile

Family Ictaluridae

- Ictalurus mexicanus
- Ictalurus pricei
- Noturus bailei
- Noturus flavipinnis
- Noturus furiosus
- Noturus gilberti
- Noturus lachneri
- Noturus munitus
- Noturus placidus
- Noturus stanauli
- Noturus taylori
- Noturus trautmani
- Prietella phreatophila
- Satan eurystomus
- Trogloglanis pattersoni

Rio Verde Catfish
Yaqui Catfish
Smoky Madtom
Yellowfin Madtom
Carolina Madtom
Orangefin Madtom
Ouachita Madtom
Frecklebelly Madtom
Neosho Madtom
Pygmy Madtom
Caddo Madtom
Scioto Madtom
Muzquiz Blindcat
Widemouth Blindcat
Toothless Blindcat

R Mexico
R Mexico
E U.S.A.
E U.S.A.
V U.S.A.
V U.S.A.
E U.S.A.
V U.S.A.
V U.S.A.
R U.S.A.
R U.S.A.
E U.S.A.
I Mexico
R U.S.A.
R U.S.A.

Family Bagridae

- Coreobagrus ichikawai
- Gephryoglanis gilli

Nekogigi
Clanwilliam Rock-catfish

E Japan
R South Africa

Family Pangasiidae

- Pangasianodon gigas
- Pangasius sanitwongsei

V Mekong Basin
R Thailand

Family Clariidae

- Clarias cavernicola

Cave Catfish

E Namibia

Order SALMONIFORMES

Family Umbridae

- Novumbra hubbsi

Olympic Mudminnow

R U.S.A.

Fish

Family Osmeridae

Osmerus spectrum

R Canada, U.S.A.

Family Retropinnidae

Prototroctes oxyrhynchus

New Zealand Greyling

Ex [New Zealand]

Family Galaxiidae

Galaxias postvectis

Neochanna burrowsius

Neochanna diversus

I New Zealand

R New Zealand

I New Zealand

Shortjawed Kokopu

Canterbury Mudfish

Black Mudfish

Family Salmonidae

Coregonus alpenae

Coregonus canadensis

Coregonus hoyi

Coregonus johannae

Coregonus kiyi

Coregonus nigripinnis

Coregonus reighardi

Coregonus zenithicus

Salmo apache

Salmo chrysogaster

Salmo clarki (subspecies)

Salmo gilae

Salmo platycephalus

Salvelinus agassizi

Stenodus leucichthys leucichthys

Ex [Great Lakes (North America)]

E Great Lakes (North America)

I Great Lakes (North America)

Ex Great Lakes (North America)

V Great Lakes (North America)

V Great Lakes (North America)

V Great Lakes (North America)

V Great Lakes (North America)

V U.S.A.

I Mexico

T* U.S.A.

E U.S.A.

E Turkey

Ex [Mexico]

V U.S.S.R.

Pygmy Smelt

Order PERCOPSIFORMES

Family Amblyopsidae

Amblyopsis rosae

Amblyopsis spelaea

Speoplatyrhinus poulsoni

Ozark Cavefish

Northern Cavefish

Alabama Cavefish

V U.S.A.

V U.S.A.

V U.S.A.

Order CYPRINODONTIFORMES

Family Aplocheilidae

Rivulus robustus

Mexican Rivulus

R Mexico

Family Cyprinodontidae

Campellobias brucei

Crenichthys baileyi

Crenichthys nevadae

Cualac tessellatus

Santa Catarina Sabrefin

White River Springfish

Railroad Valley Springfish

Media Luna Killie

E Brazil

V U.S.A.

V U.S.A.

V Mexico

<u>Cynolebias constanciae</u>				I	Brazil
<u>Cynolebias marmoratus</u>	Ginger Pearlfish			I	Brazil
<u>Cynolebias minutus</u>	Minute Pearlfish			I	Brazil
<u>Cynolebias opalescens</u>	Opalescent Pearlfish			I	Brazil
<u>Cynolebias splendens</u>	Splendid Pearlfish			I	Brazil
<u>Cyprinodon alvarezi</u>	Potosi Pupfish			E	Mexico
<u>Cyprinodon atrorus</u>	Bolson Pupfish			R	Mexico
<u>Cyprinodon beltrani</u>	Blackfin Pupfish			R	Mexico
<u>Cyprinodon bifasciatus</u>	Cuatro Cienegas Pupfish			R	Mexico
<u>Cyprinodon bovinus</u>	Leon Springs Pupfish			E	U.S.A.
<u>Cyprinodon diabolis</u>	Devils Hole Pupfish			V	U.S.A.
<u>Cyprinodon elegans</u>	Comanche Springs Pupfish			E	U.S.A.
<u>Cyprinodon eximius</u>	Conchos Pupfish			V	Mexico, U.S.A.
<u>Cyprinodon fontinalis</u>	Carbonera Pupfish			E	Mexico
<u>Cyprinodon labiosus</u>	Thicklip Pupfish			R	Mexico
<u>Cyprinodon latifasciatus</u>	Parras Pupfish			Ex	[Mexico]
<u>Cyprinodon macrolepis</u>	Bigscale Pupfish			R	Mexico
<u>Cyprinodon macularius</u>	Desert Pupfish			E	Mexico, U.S.A.
<u>Cyprinodon maya</u>	Maya Pupfish			R	Mexico
<u>Cyprinodon meeki</u>	Mezquital Pupfish			V	Mexico
<u>Cyprinodon nevadensis</u>	Amargosa Pupfish			V	U.S.A.
<u>Cyprinodon pachycephalus</u>	Bighead Pupfish			V	Mexico
<u>Cyprinodon radiosus</u>	Owens Pupfish			E	U.S.A.
<u>Cyprinodon simus</u>	Vertical Jaw Pupfish			R	Mexico
<u>Cyprinodon tularosa</u>	White Sands Pupfish			R	U.S.A.
<u>Cyprinodon verrecundus</u>	Largefin Pupfish			R	Mexico
<u>Empetrichthys latos</u>	Pahrump Killifish			V	U.S.A.
<u>Empetrichthys merriami</u>	Ash Meadows Killifish			Ex	[U.S.A.]
<u>Fundulus albolineatus</u>	Whiteline Topminnow			Ex	[U.S.A.]
<u>Fundulus julisia</u>	Barrens Topminnow			V	U.S.A.
<u>Fundulus waccamensis</u>	Waccamaw Killifish			V	U.S.A.
<u>Kosswigichthys asquamatus</u>	Scaleless Killifish			V	Turkey
<u>Lucania interioris</u>	Sardinilla Cuatro Cienegas			V	Mexico
<u>Micropachax schoelleri</u>				I	Egypt
<u>Megupsilon aporus</u>	Caterina Pupfish			E	Mexico
<u>Orestias cuvieri</u>				E	Bolivia
<u>Simpsonichthys boitonei</u>	Brasilia Lyrefin			R	Brazil

Family Goodeidae

Allotoca maculata
Ataeniobius toweri
Characodon lateralis
Skiffia francescae
Xenophorus captivus

Opal Goodeid
 Striped Goodeid
 Rainbow Goodeid
 Golden Skiffia
 Potosi Goodeid

V Mexico
 V Mexico
 V Mexico
 E Mexico
 R Mexico

Family Poeciliidae

Gambusia alvarezi
Gambusia amistadensis
Gambusia gaigei
Gambusia georgei
Gambusia heterochir
Gambusia hurtadoi
Gambusia longispinis
Gambusia nobilis
Poeciliopsis occidentalis
Xiphophorus couchianus
Xiphophorus gordonii

Guayacon de San Gregorio
 Amistad Gambusia
 Big Bend Gambusia
 San Marcos Gambusia
 Clear Creek Gambusia
 Guayacon de Hacienda Dolores
 Guayacon de Cuatro Ciénegas
 Pecos Gambusia
 Gila Topminnow
 Monterrey Platyfish
 Cuatro Ciénegas Platyfish

R Mexico
 Ex [U.S.A.]
 E U.S.A.
 E U.S.A.
 E U.S.A.
 R Mexico
 R Mexico
 E U.S.A.
 V Mexico, U.S.A.
 E Mexico
 R Mexico

Order ATHERINIFORMES

Family Atherinidae

Menidia conchorum
Menidia extensa

Key Silverside
 Waccamaw Silverside

R U.S.A.
 V U.S.A.

Family Phallostethidae

Phallostethus dunckeri

I Malaysia

Order SCORPAENIFORMES

Family Cottidae

Cottus asperimus
Cottus echinatus
Cottus extensus
Cottus greeniei
Cottus princeps
Cottus pygmaeus

Rough Sculpin
 Utah Lake Sculpin
 Bear Lake Sculpin
 Shoshone Sculpin
 Klamath Lake Sculpin
 Pygmy Sculpin

R U.S.A.
 Ex [U.S.A.]
 R U.S.A.
 V U.S.A.
 R U.S.A.
 V U.S.A.

Order PERCIFORMES

Family Centrarchidae

Ambloplites cavifrons
Micropterus notius
Micropterus treculi

Roanoke Bass
 Suwannee Bass
 Guadalupe Bass

R U.S.A.
 R U.S.A.
 V U.S.A.

Family Percidae

<u>Ammocrypta asprella</u>	Crystal Darter	R	U.S.A.
<u>Ammocrypta pellucida</u>	Eastern Sand Darter	V	Canada, U.S.A.
<u>Etheostoma acuticeps</u>	Sharphead Darter	V	U.S.A.
<u>Etheostoma aquali</u>	Coppercheek Darter	R	U.S.A.
<u>Etheostoma australe</u>	Conchos Darter	V	Mexico
<u>Etheostoma boschungii</u>	Slackwater Darter	V	U.S.A.
<u>Etheostoma cinereum</u>	Ashy Darter	R	U.S.A.
<u>Etheostoma ditrema</u>	Coldwater Darter	V	U.S.A.
<u>Etheostoma fonticola</u>	Fountain Darter	E	U.S.A.
<u>Etheostoma kanawhae</u>	Kanawha Darter	R	U.S.A.
<u>Etheostoma luteovinctum</u>	Redband Darter	R	U.S.A.
<u>Etheostoma mariae</u>	Pinewoods Darter	R	U.S.A.
<u>Etheostoma microlepidum</u>	Smallscale Darter	R	U.S.A.
<u>Etheostoma moorei</u>	Yellowcheek Darter	R	U.S.A.
<u>Etheostoma nianquae</u>	Niangua Darter	R	U.S.A.
<u>Etheostoma nuchale</u>	Watercress Darter	E	U.S.A.
<u>Etheostoma okaloosae</u>	Okaloosa Darter	V	U.S.A.
<u>Etheostoma pallidorsum</u>	Paleback Darter	R	U.S.A.
<u>Etheostoma pottsi</u>	Mexican Darter	V	Mexico
<u>Etheostoma rubrum</u>	Bayou Darter	V	U.S.A.
<u>Etheostoma saludae</u>	Saluda Darter	R	U.S.A.
<u>Etheostoma sellare</u>	Maryland Darter	E	U.S.A.
<u>Etheostoma striatulum</u>	Striated Darter	V	U.S.A.
<u>Etheostoma trisella</u>	Trispot Darter	V	U.S.A.
<u>Etheostoma tuscumbia</u>	Tuscumbia Darter	V	U.S.A.
<u>Percia schrenki</u>	Balkhash Perch	R	U.S.S.R.
<u>Percina antesella</u>	Amber Darter	V	U.S.A.
<u>Percina aurolineata</u>	Goldline Darter	V	U.S.A.
<u>Percina burtoni</u>	Blotchsides Logperch	R	U.S.A.
<u>Percina cymatotaenia</u>	Bluestripe Darter	R	U.S.A.
<u>Percina jenkinsi</u>	Conasauga Logperch	E	U.S.A.
<u>Percina lenticula</u>	Freckled Darter	R	U.S.A.
<u>Percina macrocephala</u>	Longhead Darter	V	U.S.A.
<u>Percina nasuta</u>	Longnose Darter	V	U.S.A.
<u>Percina pantherina</u>	Leopard Darter	V	U.S.A.
<u>Percina rex</u>	Roanoke Logperch	V	U.S.A.
<u>Percina tanasi</u>	Snail Darter	R	U.S.A.
<u>Romanichthys valsanicola</u>	Asprete	E	Rumania

Family Sciaenidae

<u>Totoaba macdonaldi</u>	Totoaba	E	Mexico
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Family Cichlidae

<u>Cichlasoma bartoni</u>	Mojarra	Caracolera	V	Mexico
<u>Cichlasoma labridens</u>	Mojarra		V	Mexico
<u>Cichlasoma minckleyi</u>	Mojarra		V	Mexico
<u>Cichlasoma pantostictum</u>	Mojarra		R	Mexico
<u>Cichlasoma steindachneri</u>	Mojarra		R	Mexico
<u>Konia dikume</u>	Dikume		V	Cameroon
<u>Konia eisentrauti</u>	Konye		V	Cameroon
<u>Mistichthys luzonensis</u>	Sinarapan		V	Philippines
<u>Myaka myaka</u>	Myaka Myaka		V	Cameroon
<u>Pungu maclareni</u>	Pungu		V	Cameroon
<u>Sarotherodon caroli</u>	Fissi		V	Cameroon
<u>Sarotherodon linnellii</u>	Unga		V	Cameroon
<u>Sarotherodon lohbergeri</u>	Leka Keppe		V	Cameroon
<u>Sarotherodon steinbachi</u>	Kululu		V	Cameroon
<u>Stomatepia mariae</u>	Nsess		V	Cameroon
<u>Stomatepia mongo</u>	Mongo		V	Cameroon
<u>Stomatepia pindu</u>	Pindu		V	Cameroon

Family Gobiidae

<u>Eucyclogobius newberryi</u>	Tidewater Goby	R	U.S.A.
<u>Lentipes concolor</u>	Lizard Goby	V	U.S.A.
<u>Sicydium stimpsoni</u>	O'opu Nopili	R	U.S.A.

Family Belontiidae

<u>Belontia signata</u>	Combail	R	Sri Lanka
<u>Malpulutta kretseri</u>	Ornate Paradisefish	V	Sri Lanka

Family Chaniidae

<u>Channa orientalis</u>	Smooth Breasted Snakehead	R	Sri Lanka
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Phylum CILIOPHORA

CLASS POLYHYMENOPHOREA

Order HETEROTRICHIDA

Family Stentoridae

Stentor introversus

Tartar's Stentor

K U.S.A.

CLASS ANTHOZOA

Phylum CNIDARIA

Order GORGONACEA

Family Plexauridae

Eunicella verrucosa

Broad Sea Fan

K Mediterranean Sea, North-east Atlantic Ocean

Family Coralliidae

Corallium

Precious Corals (20 species)

CT Mediterranean Sea, Pacific Ocean

Order ACTINIARIA

Family Edwardsiidae

Nematostella vectensis

Starlet Sea Anemone

V U.K., North America

Order ANTIPATHARIA

Family Anthipathidae

Black Coral (c 150 species)

CT Caribbean, Indo-Pacific

CLASS TURBELLARIA

Phylum PLATYHELMINTHES

Order TRICLADIDA

Family Kenkiidae

Kenkia rhynchida

Romankenkius pedderensis

Sphalloplana holsingeri

Sphalloplana subtilis

Malheur Cave Planarian

Lake Pedder Planarian

Holsinger's Groundwater Planarian

Biggers' Groundwater Planarian

R U.S.A.

Ex? [Tasmania]

E U.S.A.

E U.S.A.

CLASS ENOPLA

Order HOPLONEMERTEA

Family Prosorhochmidae

Antiponemertes allisonae
Argonemertes australiensis
Argonemertes hillii
Argonemertes stocki
Geonemertes rodericana
Katechonemertes nightingaleensis
Leptonemertes chalcophora
Pantinonemertes agricola
Pantinonemertes enalios
Pantinonemertes winsori

CLASS GASTROPODA

Order ARCHAEOASTROPODA

Family Turbinidae

Turbo marmoratus

Order MESOGASTROPODA

Family Valvatidae

Valvata utahensis

Family Hydrobiidae

Amnicola deserta
Aphaostracon asthenes
Aphaostracon monas
Aphaostracon pycnas
Aphaostracon xynoeictus
Cinninnia heliocgyra
Cinninnia mica
Cinninnia monroensis
Cinninnia parva
Cinninnia ponderosa
Cinninnia vanhyningi
Cinninnia wekiwaee
Coahuilix hubbsi

Phylum MOLLUSCA

CLASS GASTROPODA

Order ARCHAEOASTROPODA

Family Turbinidae

Turbo marmoratus

Order MESOGASTROPODA

Family Valvatidae

Valvata utahensis

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Cinninnia monroensis
Cinninnia parva
Cinninnia ponderosa
Cinninnia vanhyningi
Cinninnia wekiwee
Coahuilix hubbsi

Phylum NEMERTEA

Land Nemertines

V	New Zealand
R	Australia
R	Australia
R	Australia
R	Rodrigues
R	Tristan da Cunha
R	Madeira, Azores, Canary Is
R	Bermuda
K	Australia
K	Australia

Phylum MOLLUSCA

CLASS GASTROPODA

Order ARCHAEOASTROPODA

Family Turbinidae

Turbo marmoratus

Order MESOGASTROPODA

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Cinninnia monroensis
Cinninnia parva
Cinninnia ponderosa
Cinninnia vanhyningi
Cinninnia wekiwee
Coahuilix hubbsi

<u>Cochliopa texana</u>	I	U.S.A.
<u>Cochliopina milleri</u>	V	Mexico
<u>Durangonella coahuilae</u>	V	Mexico
<u>Fluminicola avernalis</u>	I	U.S.A.
<u>Fluminicola erythropoma</u>	E	U.S.A.
<u>Fluminicola merriami</u>	I	U.S.A.
<u>Fluminicola robusta</u>	I	U.S.A.
<u>Fontelicella sp.</u>	V	U.S.A.
<u>Fonticella neomexicana</u>	Ex?	[U.S.A.]
<u>Lithoglyphus columbiana</u>	I	U.S.A.
<u>Marstonia agarhecta</u>	I	U.S.A.
<u>Marstonia castor</u>	I	U.S.A.
<u>Marstonia ogmoraphe</u>	I	U.S.A.
<u>Mexipyrghus carranzae</u>	V	Mexico
<u>Mexipyrghus churinceanus</u>	V	Mexico
<u>Mexipyrghus escobeda</u>	V	Mexico
<u>Mexipyrghus lugoi</u>	V	Mexico
<u>Mexipyrghus mojarrales</u>	V	Mexico
<u>Mexipyrghus multilineatus</u>	V	Mexico
<u>Mexithauma quadripaludium</u>	V	Mexico
<u>Nymphophilus minckleyi</u>	V	Mexico
<u>Paludiscala caramba</u>	V	Mexico
<u>Somatogyrus catanotus</u>	I	U.S.A.
<u>Somatogyrus parvulus</u>	I	U.S.A.
<u>Somatogyrus tenax</u>	I	U.S.A.
<u>Stiobia nana</u>	I	U.S.A.
<u>Tryonia cheatumi</u>	I	U.S.A.
<u>Tryonia clathrata</u>	I	U.S.A.
<u>Tryonia imitator</u>	I	U.S.A.
Family Assimineidae		
<u>Assiminea infirma</u>	I	U.S.A.
<u>Assiminea sp.</u>	V	U.S.A.
Family Pleuroceridae		
<u>Athearni anthonyi</u>	I	U.S.A.
<u>Athearni crassa</u>	I	U.S.A.
<u>Goniobasis albanyensis</u>	I	U.S.A.
<u>Io fluvialis</u>	V	U.S.A.
<u>Leptoxis praerosa</u>	I	U.S.A.
<u>Lithasia armigera</u>	I	U.S.A.
<u>Lithasia duttoniana</u>	I	U.S.A.
<u>Lithasia geniculata</u>	I	U.S.A.
<u>Phantom Cave Snail</u>	I	U.S.A.
<u>Miller's Snail</u>	V	Mexico
<u>Durangonella de Coahuila Snail</u>	V	Mexico
<u>Muddy Valley Turban Snail</u>	I	U.S.A.
<u>Point of Rocks Spring Snail</u>	E	U.S.A.
<u>Pahrnagat Valley Turban Snail</u>	I	U.S.A.
<u>Elk Island Snail</u>	I	U.S.A.
<u>Roswell Fontelicella</u>	V	U.S.A.
<u>Socorro Spring Snail</u>	Ex?	[U.S.A.]
<u>Giant Columbia River Spire Snail</u>	I	U.S.A.
<u>Obese Marstonia Snail</u>	I	U.S.A.
<u>Mexipyrghus de Carranza Snail</u>	V	Mexico
<u>Mexipyrghus de Churince Snail</u>	V	Mexico
<u>Mexipyrghus de Escobeda Snail</u>	V	Mexico
<u>Mexipyrghus de Lugo Snail</u>	V	Mexico
<u>Mexipyrghus de West El Mojarra Snail</u>	V	Mexico
<u>Mexipyrghus de East El Mojarra Snail</u>	V	Mexico
<u>Mexithauma de Cienegas Snail</u>	V	Mexico
<u>Nymphophilus de Minckley Snail</u>	V	Mexico
<u>Paludiscala de Oro Snail</u>	V	Mexico
<u>Cheatum's Snail</u>	I	U.S.A.
<u>White River Snail</u>	I	U.S.A.
<u>California Brackish Water Snail</u>	I	U.S.A.
<u>Badwater Snail</u>	I	U.S.A.
<u>Pecos Assiminea Snail</u>	V	U.S.A.
<u>Anthony's River Snail</u>	I	U.S.A.
<u>Crass River Snail</u>	I	U.S.A.
<u>Albany River Snail</u>	I	U.S.A.
<u>Spiny River Snail</u>	V	U.S.A.
<u>Mainstream River Snail</u>	I	U.S.A.
<u>Armigerous River Snail</u>	I	U.S.A.
<u>Dutton's River Snail</u>	I	U.S.A.
<u>Geniculate River Snail</u>	I	U.S.A.

<u>Lithasia jayana</u>	Jay's River Snail	I	U.S.A.
<u>Lithasia lima</u>	Elk River File Snail	I	U.S.A.
<u>Lithasia salebrosa</u>	Rugged River Snail	I	U.S.A.
<u>Lithasia verrucosa</u>	Verrucose File Snail	I	U.S.A.
Family Strombidae			
<u>Strombas gigas</u>	Queen Conch	CT	Caribbean
Family Cymatiidae			
<u>Charonia tritonis</u>	Triton's Trumpet	R	Indo-Pacific
Order GYMNOSOMATA			
Family Corambidae			
<u>Doridella batava</u>	Zuiderzee Doridella Sea Slug	K	Netherlands
Order BASOMMATOPHORA			
Family Lymnaeidae			
<u>Lymnaea kingii</u>	Utah Band Snail	I	U.S.A.
<u>Myxas glutinosa</u>	Glutinous Snail	V	Europe
<u>Stagnicola pilsbryi</u>	Fish Springs Pond Snail	I	U.S.A.
Family Laniidae			
<u>Fisherola nuttalli</u>	Giant Columbia River Limpet	I	U.S.A.
Family Physidae			
<u>Physa spelunca</u>	Wyoming Cave Snail	I	U.S.A.
<u>Physa utahensis</u>	Utah Bubble Snail	I	U.S.A.
<u>Physa zionis</u>	Zion Canyon Snail	I	U.S.A.
<u>Physa sp.</u>	Snake River Physa Snail	V	U.S.A.
<u>Stenophysa microstriata</u>	Fish Lake Snail	I	U.S.A.
Family Planorbidae			
<u>Ancylastrum cumingianus</u>	Tasmanian Freshwater 'Limpet'	E	Tasmania
<u>Helisoma jacksonense</u>	Jackson Lake Snail	I	U.S.A.
<u>Helisoma magnificum</u>	Cape Fear Ramshorn Snail	I	U.S.A.
<u>Segmentina nitida</u>	Greenfield Ramshorn Snail	V	Europe
<u>Iaphius eucosmius eucosmius</u>		I	U.S.A.
Order STYLOMMATOPHORA			
Family Achatinellidae			
<u>Achatinella</u> (41 species)	22 species Little Agate Shells	Ex	[Hawaii]
	19 species Little Agate Shells	E	Hawaii
<u>Partulina confusa</u>		E	Hawaii

Partulina crassa
Partulina fusoides
Partulina montagui
Partulina perdix
Partulina splendida
Perdicella kuhnsi

Ex [Hawaii]
V Hawaii
Ex [Hawaii]
V Hawaii
V Hawaii
E/V Hawaii

Family Partulidae

Partula aurantia
Partula exigua
Partula gibba
Partula hebe
Partula mirabilis
Partula mooreana
Partula radiolata
Partula salifana
Partula suturalis
Partula taeniata
Partula tohiveana
Samoana abbreviata
Samoana diaphana
Samoana solitaria

E/Ex Moorea
E Moorea
E Guam
E Society Is
E Moorea
E Moorea
K Guam
K Guam
E Moorea
E Moorea
E Moorea
I American Samoa
E Society Is
E Society Is

Short Samoan Tree Snail

Family Amastridae

Carelia (all species)
Thaanumia sp.

Ex [Hawaii]
Ex? [Hawaii]

Family Pupillidae

Leiostyla abbreviata
Leiostyla cassida
Leiostyla corneocostata
Leiostyla gibba
Leiostyla lamellosa
Sterkia clementina

V Madeira
V Madeira
V Madeira
V Madeira
V Madeira
I U.S.A.

San Clemente Island Blunt-top Snail

Family Vertiginidae

Vertigo alabamensis
Vertigo angustior
Vertigo genesii
Vertigo geyeri
Vertigo hebardi
Vertigo moulinsiana

I U.S.A.
V Europe
V Europe
V Europe
I U.S.A.
V Europe

Family Clausiliidae

Balea perversa

Family Succineidae

Catinella arenaria

Oxyloma haydeni kanabensis

Oxyloma sarsi

Family Streptaxidae

Gulella plantii

Family Rhytididae

Paryphanta busbyi

Paryphanta compta

Paryphanta fletcheri

Paryphanta gilliesi

Paryphanta hochstetteri

Paryphanta lignaria

Paryphanta rossiana

Paryphanta traversi

Family Acavidae

Anoglypta launcestonensis

Family Bulimulidae

Bulimulus (31 endemic species)

Placostylus ambagiosus

Placostylus bollonsi

Placostylus hongii

Family Arionidae

Binneya notabilis

Geomalacus maculosus

Family Endodontidae

Anguispira picta

Discus defloratus

Discus guerinianus

Discus macclintocki

Discus marmorensis

Thaumatodon hystricelloides

V	Europe
V	Europe
I	U.S.A.
V	Europe
V	South Africa
V	New Zealand
V	New Zealand
V	New Zealand
V	New Zealand
V	New Zealand
V	New Zealand
V	New Zealand
V	New Zealand
V	New Zealand
E	Tasmania
E	Galapagos Is
V	New Zealand
V	New Zealand
V	New Zealand
V	R
V	U.S.A.
R	Ireland
V	U.S.A.
V	Madeira
V	Madeira
E	U.S.A.
I	U.S.A.
E	Western Samoa

Family Helicodiscidae

- Helicodiscus diadema
- Helicodiscus hexodon

Family Helicarionidae

- Diastole matafaoi

Family Zonitidae

- Glyphyalinia pecki
- Paravitrea clappi

Family Polygyridae

- Ashmunella pasonis
- Mesodon archeri
- Mesodon clarki nantahala
- Mesodon clausus trossulus
- Mesodon clenchi
- Mesodon magazinensis
- Polygyra hippocrepis
- Polygyra peregrina
- Polygyriscus virginianus
- Stenotrema hubrichti
- Stenotrema leai cheatumi
- Stenotrema pilsbryi
- Tridopsis mullani magnidentata
- Tridopsis occidentalis
- Vespericola karokorum

Family Ammonitellidae

- Ammonitella yatesi

Family Camaenidae

- Papustyla pulcherrima

Family Oreohelicidae

- Oreohelix avaloensis
- Oreohelix idahoensis idahoensis
- Oreohelix jugalis jugalis
- Oreohelix jugalis vortex
- Oreohelix peripherica weberiana
- Oreohelix strigosa goniogyra
- Oreohelix waltoni

	I	U.S.A.
	I	U.S.A.
Mount Matafao Different Snail	I	American Samoa
	I	U.S.A.
	I	U.S.A.
Archer's Toothed Land Snail	I	U.S.A.
Noonday Snail	V	U.S.A.
Clench's Middle-toothed Land Snail	I	U.S.A.
Magazine Mountain Middle-toothed Snail	I	U.S.A.
Strange Many-whorled Land Snail	I	U.S.A.
Virginia Fringed Mountain Snail	E	U.S.A.
	I	U.S.A.
	I	U.S.A.
Pilsbry's Narrow-apertured Land Snail	I	U.S.A.
Western Three-toothed Land Snail	I	U.S.A.
Karok Indian Snail	V	U.S.A.
Yate's Snail	I	U.S.A.
Manus Green Tree Snail	R	Papua New Guinea
Idaho Banded Mountain Snail	I	U.S.A.
Vortex Banded Mountain Snail	I	U.S.A.
Coalville Mountain Snail	I	U.S.A.
Carinated Striate Banded Mountain Snail	I	U.S.A.
Walton's Banded Mountain Snail	I	U.S.A.

Helminthoglypta <u>allynsmithi</u>	Allyn Smith's Banded Snail	I	U.S.A.
Helminthoglypta <u>arrosa pmoensis</u>		I	U.S.A.
Helminthoglypta <u>arrosa williamsi</u>		I	U.S.A.
Helminthoglypta <u>callistoderma</u>		I	U.S.A.
Helminthoglypta <u>mohaveana</u>		I	U.S.A.
Helminthoglypta <u>nickliniana awania</u>	Nicklin's Peninsula Snail	I	U.S.A.
Helminthoglypta <u>nickliniana bridgesi</u>		I	U.S.A.
Helminthoglypta <u>seguoiicola consors</u>		I	U.S.A.
Helminthoglypta <u>traski coelata</u>		I	U.S.A.
Helminthoglypta <u>walkeriana</u>	Banded Dune Snail	V	U.S.A.
Micrarionta <u>facta</u>	Concentrated Snail	V	U.S.A.
Micrarionta <u>feralis</u>	Fraternal Snail	I	U.S.A.
Micrarionta <u>gabbi</u>	Gabb's Snail	I	U.S.A.
Micrarionta <u>immaculata</u>		I	U.S.A.
Micrarionta <u>morongoana</u>	Colorado Desert Snail	I	U.S.A.
Micrarionta <u>opuntia</u>	Prickly Pear Snail	I	U.S.A.
Micrarionta <u>rowelli bakerensis</u>		I	U.S.A.
Micrarionta <u>rowelli mccoiana</u>	California McCoy Snail	I	U.S.A.
Monadenia <u>circumcarinata</u>		I	U.S.A.
Monadenia <u>fidelis minor</u>		I	U.S.A.
Monadenia <u>fidelis pronotus</u>	Rocky Coast Snail	I	U.S.A.
Monadenia <u>hillebrandi yosemitansis</u>	Indian Yosemite Snail	I	U.S.A.
Monadenia <u>mormonum buttoni</u>		I	U.S.A.
Monadenia <u>mormonum hirsuta</u>		I	U.S.A.
Monadenia <u>setosa</u>	Trinity Bristle Snail	I	U.S.A.
Monadenis <u>trogloodytes</u>		I	U.S.A.
Sonorella <u>eremita</u>		I	U.S.A.
Sonorella <u>metcalfi</u>		I	U.S.A.

Family Helicidae

<u>Cascolus calculus</u>	V	Madeira
<u>Cascolus commixta</u>	V	Madeira
<u>Cascolus sphaerula</u>	V	Madeira
<u>Discula leacockiana</u>	V	Madeira
<u>Discula tabellata</u>	V	Madeira
<u>Discula testudinalis</u>	V	Madeira
<u>Discula turricula</u>	V	Madeira
<u>Geomitra moniziana</u>	V	Madeira
<u>Helix pomatia</u>	R	Europe
<u>Helix subplicata</u>	V	Madeira

Family **Elonidae**
Elona quimperiana

CLASS BIVALVIA

Order PTERIOIDA

Family **Pteriidae**

Pinctada margaritifera
Pinctada maxima

Order UNIONOIDA

Family **Unionidae**

Alasmidonta arcuata
Alasmidonta atropurpurea
Alasmidonta heterodon
Alasmidonta raveneliana
Alasmidonta robusta
Alasmidonta wrightiana
Arkansia wheeleri
Canthyrina collina
Carunculina pulla
Conradilla caelata
Cyprogenia aberti
Cyprogenia irrorata
Cyrtonebias tampicoensis
Dromus dromas
Elliptio marsupiobesa
Elliptio nigella
Elliptio spinosa
Elliptio steinstansana
Elliptio waccamawensis
Elliptio sp.
Epioblasma arcaeformis
Epioblasma biemarginata
Epioblasma brevidens
Epioblasma capsaeformis
Epioblasma flexuosa
Epioblasma florentina curtisi
Epioblasma florentina
Epioblasma haysiana
Epioblasma lefevrei
Epioblasma tecomatensis

Escargot de Quimper

R France, Spain

Black-lipped Pearl Oyster
Gold-lipped Pearl Oyster

CT Indo-Pacific
CT Indo-Pacific

Dwarf Wedge Mussel

I U.S.A.

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V U.S.A.

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E U.S.A.

I U.S.A.

I U.S.A.

E Mexico

E U.S.A.

I U.S.A.

Ex [U.S.A.]

I U.S.A.

E U.S.A.

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I U.S.A.

Ex? [U.S.A.]

Ex [U.S.A.]

I U.S.A.

I U.S.A.

Ex [U.S.A.]

Ex? [U.S.A.]

E U.S.A.

E U.S.A.

Ex [U.S.A.]

Arcuate Pearly Mussel
Curtis Pearly Mussel
Yellow-blossom Pearly Mussel
Acorn Pearly Mussel
Lefevre's Pearly Mussel

<u>Epioblasma lenior</u>	Stone's Pearly Mussel	Ex	[U.S.A.]
<u>Epioblasma lewisi</u>	Lewis Pearly Mussel	Ex?	[U.S.A.]
<u>Epioblasma metastrata</u>		E	U.S.A.
<u>Epioblasma othcaloogensis</u>	Southern Acorn Riffle Shell	E	U.S.A.
<u>Epioblasma penita</u>	Penitent Mussel	E	U.S.A.
<u>Epioblasma personata</u>	Fine-rayed Pearly Mussel	E	U.S.A.
<u>Epioblasma propinqua</u>	Nearby Pearly Mussel	Ex	[U.S.A.]
<u>Epioblasma sampsoni</u>	Sampson's Pearly Mussel	Ex	[U.S.A.]
<u>Epioblasma stewardsoni</u>	Steward's Pearly Mussel	E	U.S.A.
<u>Epioblasma sulcata delicata</u>	White Cat's Paw Mussel	Ex	[U.S.A.]
<u>Epioblasma sulcata sulcata</u>	Purple Cat's Paw Mussel	E	U.S.A.
<u>Epioblasma torulosa gubernaculum</u>	Green-blossom Pearly Mussel	I	U.S.A.
<u>Epioblasma torulosa rangiana</u>	Tan-blossom Pearly Mussel	E	U.S.A.
<u>Epioblasma torulosa torulosa</u>	Tubercled-blossom Pearly Mussel	E	Canada, U.S.A.
<u>Epioblasma triquetra</u>	Snuffbox	E	U.S.A.
<u>Epioblasma turgidula</u>	Turgid-blossom Pearly Mussel	V	U.S.A.
<u>Epioblasma walkeri</u>	Tan Riffle Shell Mussel	E	U.S.A.
<u>Fusconaia collina</u>	Virginia Spiny Mussel	E	U.S.A.
<u>Fusconaia cuneolus</u>	Fine-rayed Pigtoe Pearly Mussel	I	U.S.A.
<u>Fusconaia edgariana</u>	Shiny Pigtoe Pearly Mussel	E	U.S.A.
<u>Hemistena lata</u>	Cracking Pearly Mussel	E	U.S.A.
<u>Lampsilis higginsii</u>	Higgin's Eye Pearly Mussel	I	U.S.A.
<u>Lampsilis orbiculata</u>	Pick Musket Pearly Mussel	E	U.S.A.
<u>Lampsilis perovalis</u>		E	U.S.A.
<u>Lampsilis rafinesqueana</u>	Neosho Pearly Mussel	I	U.S.A.
<u>Lampsilis streckeri</u>		I	U.S.A.
<u>Lampsilis virescens</u>	Alabama Lamp Pearly Mussel	I	U.S.A.
<u>Lasmigona holstonia</u>		E	U.S.A.
<u>Leptodea leptodon</u>	Scale Shell	I	U.S.A.
<u>Lexingtonia dolabelloides</u>	Slab-side Pearly Mussel	I	U.S.A.
<u>Megalonaia nicklineana</u>	Nicklin's Pearly Mussel	I	U.S.A.
<u>Obovaria retusa</u>	Golf Stick Pearly Mussel	E	Mexico
<u>Pegias fabula</u>	Little Winged Pearly Mussel	I	U.S.A.
<u>Plethobasus cicatricosus</u>	White Warty Back Pearly Mussel	I	U.S.A.
<u>Plethobasus cooperianus</u>	Cumberland Pigtoe	E	U.S.A.
<u>Pleurobema clava</u>	Northern Club Shell	E	U.S.A.
<u>Pleurobema curtum</u>	Curtus' Mussel	I	U.S.A.
<u>Pleurobema marshalli</u>	Marshall's Mussel	E	U.S.A.
<u>Pleurobema oviforme</u>		I	U.S.A.
<u>Pleurobema plenum</u>	Rough Pigtoe Pearly Mussel	E	U.S.A.
<u>Pleurobema rubrum</u>		I	U.S.A.
<u>Pleurobema taitianum</u>	Judge Tait's Mussel	E	U.S.A.

Potamilus capax
Potamilus inflatus
Quadrula cylindrica strigillata
Quadrula fragosa
Quadrula sparsa
Quadrula stapes
Simpsoniconcha ambigua
Toxolasma cylindrella
Villosa choctawensis
Villosa fabalis
Villosa ortmanni
Villosa perpurea
Villosa trabalis

Fat Pocketbook
Rough Rabbit's Foot Pearly Mussel
Rough Maple Leaf Pearly Mussel
Appalachian Monkey Face Pearly Mussel
Stirrup Shell
Salamander Mussel
Pale Lilliput Pearly Mussel
Choctaw Pearly Mussel
Ortmann's Pearly Mussel
Fine-rayed Purple Pearly Mussel
Cumberland Bean Pearly Mussel

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E U.S.A.

Family Margaritiferidae
Cumberlandia monodonta
Margaritifera auricularia
Margaritifera margaritifera
Margaritifera marrianae

Spectacle Case Pearly Mussel
Spengler's Freshwater Mussel
Freshwater Pearl Mussel
Alabama Pearl Shell

I U.S.A.
I Europe
V Europe, North America
I U.S.A.

Order VENEROIDA

Family Tridacnidae
Hippopus hippopus
Hippopus porcellanus
Tridacna crocea
Tridacna derasa
Tridacna gigas
Tridacna maxima
Tridacna squamosa

Horse's Hoof Clam
China Clam
Crocus Clam
Southern Giant Clam
Giant Clam
Small Giant Clam
Scaly Clam

I Indo-Pacific
I Indo-Pacific
K Indo-Pacific
V Indo-Pacific
V Indo-Pacific
K Indo-Pacific
I Indo-Pacific

Family Sphaeriidae
Pisidium ultramontanum

I U.S.A.

CLASS POLYCHAETA

Order EUNICIDA
Family Eunicidae
Eunice viridis

Palolo Worm

K Pacific

Phylum ANNELIDA

CLASS HIRUDINOIDEA

Order ARHYNCHOBDELLAE

Family Hirudinidae

Hirudo medicinalis

Medicinal Leech

I

Europe

CLASS OLIGOCHAETA

Order HAPLOTAXIDA

Family Megascolecidae

Megascolides americanus

Megascolides australis

Megascolides macelfreshi

Washington Giant Earthworm

Giant Gippsland Earthworm

Oregon Giant Earthworm

E

V

E

U.S.A.

Australia

U.S.A.

Family Acanthodrilidae

Chilota (13 species)

Diploprema (16 species)

Microscolex (9 species)

Udeina (59 species)

South African Acanthodriline Earthworms

V

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South Africa

South Africa

South Africa

South Africa

Family Microchaetidae

Microchaetus (33 species)

Iritogenia (5 species)

South African Giant Earthworms

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V

South Africa

South Africa

Family Lutodrilidae

Lutodrilus multivesiculatus

R

U.S.A.

Family Komarekionidae

Komarekiona eatoni

V

U.S.A.

CLASS MEROSTOMATA

Order XIPHOSURA

Family Limulidae

Carcinoscorpius rotundicauda

Limulus polyphemus

Iachypleus gigas

Iachypleus tridentatus

Horseshoe Crabs

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Coastal waters - Japan to Indonesia

Atlantic coast of North America

Coastal waters - Japan to Indonesia

Coastal waters - Japan to Indonesia

Phylum ARTHROPODA
Subphylum CHELICERATA

CLASS ARACHNIDA

Order ARANEAE
Family Theraphosidae
Brachypelma smithi

Red-kneed Tarantula

K

Mexico

Family Dipluridae
Macrothele calpeiana
Macrothele cretica

V
I

Spain
Crete

Family Ctenizidae
Cyclocosimia torreya

I

U.S.A.

Family Telemidae
Telema (whole genus)

I

U.S.A.

Family Eresidae
Eresus niger

I

Europe

Family Linyphiidae
Troglophantes gracilis
Troglophantes similis
Troglophantes spinipes

R
R
R

Yugoslavia
Yugoslavia
Yugoslavia

Family Asauridae
Dolomedes plantarius

V

Northern Europe

Family Araneidae
Meta dolloff

I

U.S.A.

Family Gnaphosidae
Cesonia irvingi

I

Bahamas, U.S.A.

Family Lycosidae
Adelocosa anops
Lycosa ericeticola
Pardosa diuturna
Sosippus placidus

No-eyed Big-eyed Wolf Spider
Glacier Bay Wolf Spider

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U.S.A.
U.S.A.
U.S.A.
U.S.A.

Order PSEUDOSCORPIONIDA
Family Neobisiidae
Microcreagris imperialis

I

U.S.A.

Order OPILIONES
Family Phalangodidae
Banksula melones

Melones Bay Harvestman
V U.S.A.

Subphylum CRUSTACEA

CLASS CRUSTACEA

Order ANOSTRACA
Family Artemiidae
Artemia monica

Mono Lake Brine Shrimp
I U.S.A.

Family Branchinectidae
Branchinecta gigas
Branchinecta paludosa

Giant Fairy Shrimp
I Western North America
R Czechoslovakia

Order THORACICA
Family Balanidae
Armatobalanus nefrens
Balanus aquila

I U.S.A.
I U.S.A.

Order ANASPIDACEA

Family Anaspidae
Allanaspides helonomus
Allanaspides hickmani
Anaspides spinulae
Anaspides tasmaniae
Paranaspides lacustris

V Tasmania
V Tasmania
V Tasmania
V Tasmania
V Tasmania

Family Koonungidae
Koonunga cursor
Micraspides calmani

R Tasmania, Australia
R Tasmania

Family Psammaspidae
Eucrenonaspides oinotheke

V Tasmania

Order ISOPODA

Family Cirolanidae
Antrolana lira
Arubolana imula
Mexilana saluposi
Speocirolana affinis
Speocirolana interstitialis
Speocirolana thermydromis

Madison Cave Isopod
V U.S.A.
I Netherlands
K Mexico
K Mexico
K Mexico
K Mexico

Family Sphaeromatidae

<u>Thermosphaeroma dugesi</u>	K	Mexico
<u>Thermosphaeroma milleri</u>	K	Mexico
<u>Thermosphaeroma smithi</u>	K	Mexico
<u>Thermosphaeroma subequalum</u>	K	Mexico
<u>Thermosphaeroma thermophilum</u>	E	U.S.A.
Socorro Isopod		

Family Trichoniscidae

<u>Metatrachoniscoides celticus</u>	V	U.K.
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Family Asellidae

<u>Caecidotea barri</u>	I	U.S.A.
<u>Caecidotea macropoda</u>	I	U.S.A.
<u>Caecidotea nickajackensis</u>	I	U.S.A.
<u>Lirceus culveri</u>	I	U.S.A.
<u>Lirceus usdagalun</u>	I	U.S.A.
Clifton Cave Isopod		
Bat Cave Isopod		
Nickajack Cave Isopod		
Rye Cove Cave Isopod		
Lee County Cave Isopod		

Family Stenasellidae

<u>Mexistenasellus coahuila</u>	I	Mexico
<u>Mexistenasellus parzefalli</u>	R	Mexico
<u>Mexistenasellus wilkensi</u>	R	Mexico
Parzefall's Stenasellid		
Wilkens' Stenasellid		

Order AMPHIPODA

Family Gammaridae

<u>Gammarus acherondytes</u>	I	U.S.A.
<u>Gammarus bousfieldi</u>	I	U.S.A.
<u>Gammarus desperatus</u>	I	U.S.A.
<u>Gammarus hyalieioides</u>	I	U.S.A.
<u>Gammarus pecos</u>	I	U.S.A.
Illinois Cave Amphipod		
Bousfield's Amphipod		
Noel's Amphipod		
Diminutive Amphipod		
Pecos Amphipod		

Family Crangonyctidae

<u>Allocrangonyx hubrichti</u>	I	U.S.A.
<u>Allocrangonyx pellucidus</u>	I	U.S.A.
<u>Crangonyx dearolfi</u>	I	U.S.A.
<u>Crangonyx grandimanus</u>	I	U.S.A.
<u>Crangonyx hobbsi</u>	I	U.S.A.
<u>Stygobromus araeus</u>	I	U.S.A.
<u>Stygobromus arizonensis</u>	I	U.S.A.
<u>Stygobromus balconius</u>	I	U.S.A.
<u>Stygobromus barri</u>	I	U.S.A.
<u>Stygobromus bifurcatus</u>	I	U.S.A.
Central Missouri Cave Amphipod		
Oklahoma Cave Amphipod		
Pennsylvania Cave Amphipod		
Florida Cave Amphipod		
Hobb's Cave Amphipod		
Tidewater Interstitial Amphipod		
Arizona Cave Amphipod		
Balcones Cave Amphipod		
Barr's Cave Amphipod		
Bifurcated Cave Amphipod		

<u>Stygobromus bowmani</u>	Bowman's Cave Amphipod	I	U.S.A.
<u>Stygobromus clantoni</u>	Clanton's Cave Amphipod	I	U.S.A.
<u>Stygobromus conradi</u>	Burnsville Cove Cave Amphipod	I	U.S.A.
<u>Stygobromus cooperi</u>	Cooper's Cave Amphipod	I	U.S.A.
<u>Stygobromus dejectus</u>	Cascade Cave Amphipod	I	U.S.A.
<u>Stygobromus elatus</u>	Elevated Spring Amphipod	I	U.S.A.
<u>Stygobromus emarginatus</u>	Greenbrier Cave Amphipod	I	U.S.A.
<u>Stygobromus ephemerus</u>	Ephemeral Cave Amphipod	I	U.S.A.
<u>Stygobromus flagellatus</u>	Ezell's Cave Amphipod	I	U.S.A.
<u>Stygobromus gradyi</u>	Grady's Cave Amphipod	I	U.S.A.
<u>Stygobromus hadenoecus</u>	Devil's Sinkhole Amphipod	I	U.S.A.
<u>Stygobromus harai</u>	Hara's Cave Amphipod	I	U.S.A.
<u>Stygobromus hayi</u>	Hay's Spring Amphipod	I	U.S.A.
<u>Stygobromus heteropodus</u>	Pickle Springs Amphipod	I	U.S.A.
<u>Stygobromus hubbsi</u>	Malheur Cave Amphipod	I	U.S.A.
<u>Stygobromus identatus</u>	Tidewater Stygonectid Amphipod	I	U.S.A.
<u>Stygobromus longipes</u>	Long-legged Cave Amphipod	I	U.S.A.]
<u>Stygobromus lucifugus</u>	Rubious Cave Amphipod	Ex	
<u>Stygobromus mackenziei</u>	Mackenzie's Cave Amphipod	I	U.S.A.
<u>Stygobromus montanus</u>	Mountain Cave Amphipod	I	U.S.A.
<u>Stygobromus morrisoni</u>	Morrison's Cave Amphipod	I	U.S.A.
<u>Stygobromus mundus</u>	Bath County Cave Amphipod	I	U.S.A.
<u>Stygobromus nortoni</u>	Norton's Cave Amphipod	I	U.S.A.
<u>Stygobromus onondagaensis</u>	Onondaga Cave Amphipod	I	U.S.A.
<u>Stygobromus ozarkensis</u>	Ozark Cave Amphipod	I	U.S.A.
<u>Stygobromus parvus</u>	Minute Cave Amphipod	I	U.S.A.
<u>Stygobromus pecki</u>	Peck's Cave Amphipod	I	U.S.A.
<u>Stygobromus pizzinii</u>	Pizzini's Amphipod	I	U.S.A.
<u>Stygobromus putealis</u>	Wisconsin Well Amphipod	I	U.S.A.
<u>Stygobromus reddelli</u>	Reddell's Cave Amphipod	I	U.S.A.
<u>Stygobromus smithii</u>	Alabama Well Amphipod	I	U.S.A.
<u>Stygobromus spinatus</u>	Spring Cave Amphipod	I	U.S.A.
<u>Stygobromus stellmacki</u>	Stellmack's Cave Amphipod	I	U.S.A.
<u>Stygobromus subtilis</u>	Subtle Cave Amphipod	I	U.S.A.
<u>Stygobromus wengerorum</u>	Wengeror's Cave Amphipod	I	U.S.A.
Family Orchestiidae			
<u>Spelaeorchestia koloana</u>	Kaui Cave Amphipod	I	Hawaii

Order DECAPODA

Family Atyidae

- Palaemonias alabamae
- Syncaris pacifica
- Typhlatya monae

- Alabama Cave Shrimp
- California Freshwater Shrimp
- Mona Cave Shrimp

- I U.S.A.
- E U.S.A.
- I Puerto Rico

Family Palaemonidae

- Palaemonetes antrorum
- Palaemonetes cummingi

- Texas Cave Shrimp
- Florida Cave Shrimp

- I U.S.A.
- V U.S.A.

Family Nephropidae

- Homarus americanus
- Homarus gammarus
- Nephrops norvegicus

- American Lobster
- European Lobster
- Norway Lobster

- CT North Atlantic
- CT North-east Atlantic
- CT North-east Atlantic

Family Cambaridae

- Cambarus batchi
- Cambarus bouchardi
- Cambarus catagius
- Cambarus chasmodactylus
- Cambarus extraneus
- Cambarus obeyensis
- Cambarus zophonastes
- Orconectes jeffersoni
- Orconectes shoupi
- Procambarus acherontis
- Procambarus connus
- Procambarus lepiclodactylus

- Big South Fork Crayfish
- Greensboro Burrowing Crayfish
- New River Riffle Crayfish
- Chickamanga Crayfish
- Obey Crayfish
- Louisville Crayfish
- Nashville Crayfish
- Orlando Cave Crayfish
- Pee Dee Lotic Crayfish

- I U.S.A.
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- I U.S.A.
- I U.S.A.

Family Astacidae

- Astacus astacus
- Austropotamobius pallipes
- Austropotamobius torrentium
- Pacifastacus fortis
- Pacifastacus nigrescens

- Noble Crayfish
- White-clawed Crayfish
- Shasta Crayfish

- V Europe
- R Europe
- K Europe
- V U.S.A.
- Ex? [U.S.A.]

Family Parastacidae

- Astacoides madagascariensis
- Astacopsis gouldi
- Cherax crassimanus
- Engaewa subcoerulea

- Madagascar Freshwater Crayfish
- Giant Freshwater Crayfish

- I Madagascar
- V Tasmania
- R West Australia
- R West Australia

Family Palinuridae

- Jasus edwardsii
- Panulirus argus
- Panulirus guttatus
- Panulirus penicillatus

- Rock Lobster CT New Zealand
- CT Caribbean
- CT Caribbean
- CT Indo-Pacific

Family Coenobitidae

- Birgus latro

- Coconut Crab R Indo-Pacific

Family Hippidae

- Emerita emeritus

- Sand Crab K India, Thailand

Family Pinnotheridae

- Parapinnixa affinis

- California Bay Pea Crab K U.S.A.

CLASS INSECTA

Order THYSANURA

Family Machilidae

- Machiloides heteropus
- Machiloides perkinsi

- Hawaiian Long-palp Bristletail I Hawaii
- I perkin's Club-palp Bristletail I Hawaii

Order EPHEMEROPTERA

Family Siphonuridae

- Acanthometropus pecatonica
- Ameletus falsus
- Isonychia diversa
- Tasmanophlebia lacus-coerulei

- Pecatonica River Mayfly Ex [U.S.A.]
- I False Mayfly U.S.A.
- I Diverse Mayfly U.S.A.
- R Large Blue Lake Mayfly Australia

Family Baetidae

- Heterocleon berneri

- Berner's Two-winged Mayfly I U.S.A.

Family Oligoneuridae

- Homoeoneuria cahabensis
- Homoeoneuria dolani

- Cahaba Sand-filtering Mayfly I U.S.A.
- I Blackwater Sand-filtering Mayfly U.S.A.

Family Heptageniidae

- Pseudirion meridionalis

- Meridion Blackwater Mayfly I U.S.A.

Family Behningiidae

- Dolania americana

- American Sand-burrowing Mayfly I U.S.A.

Subphylum UNIRAMIA

Family Ephemeridae

<u>Ephemera compar</u>			I	U.S.A.
<u>Ephemera triplex</u>	Colorado Burrowing Mayfly		I	U.S.A.
<u>Pantagenia robusta</u>	West Virginia Burrowing Mayfly		Ex	[U.S.A.]
	Robust Burrowing Mayfly			

Family Ephemerellidae

<u>Ceratella frisoni</u>	Frison's Mayfly		I	U.S.A.
<u>Ceratella spiculosa</u>	Spiculose Mayfly		I	U.S.A.
<u>Ephemerella argo</u>	Argo Mayfly		I	U.S.A.

Family Caenidae

<u>Brachycercus flavus</u>	Yellow Mayfly		I	U.S.A.
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Order ODONATA

Family Chlorolestidae

<u>Ecchlorolestes nylepytha</u>			E	South Africa
<u>Ecchlorolestes peringueyi</u>			E	South Africa

Family Lestidae

<u>Austrolestes "m"</u>			E	Australia
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Family Hemiphlebiidae

<u>Hemiphlebia mirabilis</u>	Small Damselfly		V	Australia
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Family Megapodagrionidae

<u>Amanipodagrion gilliesi</u>			E	Tanzania
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Family Protoneuridae

<u>Noeneura aaroni</u>			R	Guatemala, U.S.A.
<u>Nososticta pilbara</u>			E	Australia

Family Platycnemididae

<u>Metacnemis angusta</u>			I	South Africa
<u>Platycnemis mauricana</u>			E	Mauritius

Family Coenagrionidae

<u>Aciagrion rarum</u>			I	Angola
<u>Agriocnemis solitaria</u>			E	Mauritius
<u>Agriocnemis umbargae</u>			I	Cameroon
<u>Argiagrion leoninium</u>			I	Sierra Leone
<u>Ceriagrion mourae</u>			I	Mozambique

<u>Coenagrion freyi</u>	Frey's Damselfly	E	Austria, Germany, Switzerland
<u>Coenagrion mercuriale</u>	Southern Damselfly	E	Europe
<u>Enallagma camerunense</u>		I	Tropical Africa
<u>Enallagma polychromaticum</u>		I	South Africa
<u>Enallagma recurvatum</u>		V	U.S.A.
<u>Ischnura gemina</u>		E	U.S.A.
<u>Megalagrion adytum</u>		I	Hawaii
<u>Megalagrion amaurodytum fallax</u>		I	Hawaii
<u>Megalagrion amaurodytum peles</u>		I	Hawaii
<u>Megalagrion amaurodytum waianaenum</u>		I	Hawaii
<u>Megalagrion jugorum</u>		Ex?	[Hawaii]
<u>Megalagrion leptodermus</u>		I	Hawaii
<u>Megalagrion molokaiense</u>		I	Hawaii
<u>Megalagrion nesiotus</u>		Ex?	[Hawaii]
<u>Megalagrion nigrohamatum</u>		I	Hawaii
<u>Megalagrion nigrolineatum</u>		I	Hawaii
<u>Megalagrion oahuensis</u>		I	Hawaii
<u>Megalagrion oceanicum</u>		I	Hawaii
<u>Megalagrion pacificum</u>		E	Hawaii
<u>Megalagrion xanthomelas</u>		I	Hawaii
<u>Mortonagrion hirosei</u>		E	Japan
<u>Teinobasis alluaudi alluaudi</u>		E	Seychelles
Family Pseudostigmatidae			
<u>Mecistogaster asticta</u>		E	Brazil
Family Calopterygidae			
<u>Calopteryx angustipennis</u>		I	U.S.A.
<u>Calopteryx syriaca</u>		E	Turkey, Syria, Jordan
Family Epiophlebiidae			
<u>Epiophlebia laidlawi</u>	Relict Himalayan Dragonfly	V	India, Nepal
Family Gomphidae			
<u>Antipodogomphus hodgkini</u>		E	Australia
<u>Cornigomphus guineensis</u>		I	Tropical Africa
<u>Eleuthemis beuttikofera quadrigutta</u>		K	Mozambique, Zimbabwe
<u>Erpetogomphus lamprolittis</u>		K	U.S.A.
<u>Gomphus carolinus</u>		I	U.S.A.
<u>Gomphus consanguis</u>		R	U.S.A.
<u>Gomphus diminutus</u>		R	U.S.A.
<u>Gomphus germinatus</u>		R	U.S.A.
<u>Gomphus graslini</u>		K	France
	Sandhills Clubtail Dragonfly		
	Cherokee Clubtail Dragonfly		
	Diminutive Clubtail		
	Twin-striped Clubtail		

Somatochlora calverti
Somatochlora hineana
Somatochlora incurvata
Somatochlora margarita
Somatochlora ozarkensis
Williamsonia lintneri

Calverts' Emerald
Ohio Emerald Dragonfly

Big Thicket Emerald Dragonfly

Banded Bog Skimmer Dragonfly

R U.S.A.
E U.S.A.
R Eastern North America
R U.S.A.
R U.S.A.
V U.S.A.

Family Libellulidae
Aethiothemis wataliki
Allorhizucha campioni
Anectothemis apicalis
Brachythemis fuscopalliatata
Brachythemis liberiensis
Congothemis longistyla
Leucorrhinia albifrons
Leucorrhinia caudalis
Libellula angelina
Libellula jerseana
Monardthemis flava
Orthetrum "b"
Orthetrum rubens
Palpopleura albifrons
Sympetrum dilatatum
Triethemis hartwigi
Triethemis nigra
Urothemis thomasi

Congo
Sierra Leone
Tropical Africa
Iraq, Israel, Turkey
Guinea Bissau
Zaire
Europe, West Siberia
Europe, West Siberia
Japan
U.S.A.
Angola, Zambia
Australia
Tropical Africa
Gabon
[St Helena]
Eq. Guinea
Sao Tome
Iran

K
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Family Synlestidae
Phylolestes ethelae

V Dominican Republic

Family Macromiidae
Macromia margarita
Macromia splendens
Macromia wabashensis

R U.S.A.
V France, Portugal, Spain
K U.S.A.

Order BLATTARIA
Family Blattidae
Aspiduchus cavernicola

I Puerto Rico

Order MANTODEA
Family Mantidae
Apteromantis aptera

E Spain

Order GRYLLOBLATTARIA

Family Grylloblattidae

Grylloblatta chirurgica

Order ORTHOPTERA

Family Stenopelmaticidae

Ammopelmatus kelsoensis

Ammopelmatus muwu

Deinacrida carinata

Deinacrida fallai

Deinacrida heteracantha

Deinacrida rugosa

Deinacrida tibiospina

Stenopelmatus cahuilaensis

Stenopelmatus navajo

Family Rhaphidophoriidae

Daihinibaenetes arizonensis

Macrobaenetes kelsoensis

Macrobaenetes valgum

Pristoceuthophilus sp.

Utabaenetes tanneri

Family Tettigoniidae

Baetica ustulata

Banza nihoae

Belocephalus micanopy

Belocephalus sleighti

Conocephaloides remotus

Idiostatus middlekaufi

Neduba extincta

Neduba longipennis

Saga pedo

Family Gryllotalpidae

Gryllotalpa major

Family Gryllidae

Caconemobius howarthi

Caconemobius schauinslandi

Caconemobius varius

Mount St Helens' Grylloblattid	V	U.S.A.
Kelso Jerusalem Cricket	I	U.S.A.
Port Conception Jerusalem Cricket	I	U.S.A.
Herekopare Island Weta	V	New Zealand
Poor Knights Weta	V	New Zealand
Metapunga	V	New Zealand
Stephens Island Weta	V	New Zealand
Coachella Valley Jerusalem Cricket	I	New Zealand
Navajo Jerusalem Cricket	I	U.S.A.
	I	U.S.A.
Arizona Giant Sand Treader Cricket	I	U.S.A.
Kelso Giant Sand Treader Cricket	I	U.S.A.
Coachella Giant Sand Treader Cricket	I	U.S.A.
Samwell Cave Cricket	I	U.S.A.
Tanner's Black Camel Cricket	I	U.S.A.
Nihoa Banza Conehead Katydid	V	Spain
Big Pine Key Conehead Katydid	I	Hawaii
Keys Short-winged Conehead Katydid	I	U.S.A.
Remote Conehead Katydid	I	U.S.A.
Middlekauf's Shieldback Katydid	I	Hawaii
Antioch Dunes Shieldback Katydid	I	U.S.A.
Santa Monica Shieldback Katydid	Ex	[U.S.A.]
Predatory Bush Cricket	I	U.S.A.
	V	Southern Europe
Prairie Mole Cricket	I	U.S.A.
Howarth's Cave Cricket	I	Hawaii
Schauinsland's Bush Cricket	I	Hawaii
Kaumana Cave Cricket	I	Hawaii

Cycloptilum irregularis
Leptogryllus deceptor
Oecanthus laricis
Thaumatogryllus cavicola
Thaumatogryllus variegatus

Keys Scaly Cricket I U.S.A.
Oahu Deceptor Bush Cricket I Hawaii
Laricis Tree Cricket I U.S.A.
Volcanoes Cave Cricket I Hawaii
Kauai Thin-footed Bush Cricket I Hawaii

Family Eumastacidae
Eumorsea pinaleno
Psychomastix deserticola

Pinaleno Monkey Grasshopper I U.S.A.
Desert Monkey Grasshopper I U.S.A.

Family Acrididae
Acrolophitus pulchellus
Appalachia arcana
Chloaeltis aspasma
Spharagemon superbum

Idaho Point-headed Grasshopper I U.S.A.
Michigan Bog Grasshopper I U.S.A.
Siskiyou Chloeaeltis Grasshopper I U.S.A.
I U.S.A.

Family Tetrigidae
Tetrix sierrana
Tettigidea empedonepia

Sierra Pygmy Grasshopper I U.S.A.
Torreya Pygmy Grasshopper I U.S.A.

Order PHASMATOPTERA

Family Phasmatidae
Dryococelus australis

Lord Howe Island Stick-insect Ex [Lord Howe I.]

Order DERMAPTERA

Family Labiduridae
Labidura herculeana

St Helena Earwig E St Helena

Order PLECOPTERA

Family Nemouridae
Lednia tumana
Nemours wahkeena

Meltwater Stonefly I U.S.A.
Wahkeena Falls Flightless Stonefly I U.S.A.

Family Capniidae
Capnia lacustra

Lake Tahoe Benthic Stonefly I U.S.A.

Family Leuctridae
Leuctra szczytkoi

Schoolhouse Springs Stonefly I U.S.A.

Family Taeniopterygidae
Taeniopteryx starki

Leon River Stonefly I U.S.A.

Family Perlidae

- Beloneuria jamesae
- Beloneuria georgiana
- Hansonoperla appalachia

Family Chloroperlidae

- Alloperla roberti

Family Peltoperlidae

- Soliperla fenderi

Family Eustheniidae

- Eusthenia nothofagi

Family Gripopterygidae

- Leptoperla cacuminis
- Riekoperla darlingtoni

Order ZORAPTERA

Family Zorotypidae

- Zorotypus swezeyi

Order ANOPLURA

Family Haematopinidae

- Haematopinus oliveri

Order HEMIPTERA

Family Belostomatidae

- Belostoma saratogae

Family Naucoridae

- Ambrysus amargosus
- Pelocoris shoshone

Family Mesoveliidae

- Cavaticovelina aaa

Family Macroveliidae

- Oravelia pege

Cheaha Stonefly	I	U.S.A.
Georgia Stonefly	I	U.S.A.
Hanson's Appalachian Stonefly	I	U.S.A.
Robert's Stonefly	Ex	[U.S.A.]
Fender's Stonefly	I	U.S.A.
Otway Stonefly	E	Australia
Mount Kosciusko Wingless Stonefly	R	Australia
Mount Donna Buang Wingless Stonefly	R	Australia
Swezey's Zoroapteran	I	Hawaii
Pygmy Hog Sucking Louse	E	India
Saratoga Springs Bug	I	U.S.A.
Ash Meadows Bug	E	U.S.A.
Amargosa Bug	I	U.S.A.
Aaa Water Treader Bug	I	U.S.A.
Dry Creek Cliff Strider Bug	I	U.S.A.

Family Miridae

Cyrtopeltis phyllostegiae
Kalania hawaiiensis
Kalania sp.

Phyllostegian Leaf Bug I Hawaii
Lanai Leaf Bug I Hawaii
Oshu Leaf Bug I Hawaii

Family Reduviidae

Emicoris pulchrus
Siacella smithi
Nesidiolestes ana
Nesidiolestes insularis
Nesidiolestes roberti
Nesidiolestes selium

Pulchrus Thread Bug I Hawaii
Smith's Reduviid Bug I Hawaii
Ana Wingless Thread Bug I Hawaii
Mount Tantalus Wingless Thread Bug I Hawaii
Robert's Wingless Thread Bug I Hawaii
Selium Wingless Thread Bug I Hawaii

Family Lygaeidae

Metrarga obscura
Neseis alternatus
Neseis haleakalae
Nesocryptias villosa
Nysius frigitensis
Nysius neckerensis
Nysius nihoae
Nysius sulfusus
Oceanoides bryani
Oceanoides perkinsi
Oceanoides rugosiceps

Mauna Loa Seed Bug I Hawaii
Kauai Band-legged Seed Bug I Hawaii
Mount Haleakala Seed Bug I Hawaii
Villosan Flightless Seed Bug I Hawaii
French Frigate Shoal Seed Bug I Hawaii
Necker Goosefoot Seed Bug I Hawaii
Nihoae Seed Bug I Hawaii
Necker Bunchgrass Seed Bug I Hawaii
Bryan's Seed Bug I Hawaii
Perkin's Seed Bug I Hawaii
Rough-headed Seed Bug I Hawaii

Family Rhopalidae

Ithamar annectans
Ithamar hawaiiense

Annectans Bug I Hawaii
Hawaiian bug I Hawaii

Order HOMOPTERA

Family Cixiidae

Oliarus consimilis
Oliarus discrepans
Oliarus lanaiensis
Oliarus lihue
Oliarus myoporicola

Kauai Particoloured Planthopper I Hawaii
Wild Cotton Planthopper I Hawaii
Lanai Planthopper I Hawaii
Lihue Planthopper I Hawaii
Barber's Point Planthopper I Hawaii

Family Delphacidae

Nesorestias filicicola
Nesosydne acuta
Nesosydne bridwelli

Mt. Tantalus Shortwing Fern Planthopper I Hawaii
Iao Valley Planthopper I Hawaii
Bridwell's Planthopper I Hawaii

Order COLEOPTERA

Family Carabidae

- Agonum belleri
- Aplothorax burchelli
- Calosoma sycophanta
- Carabus intricatus
- Carabus olympiae
- Elaphrus viridis
- Mormolyce phyllodes
- Sphaeroderus schaumii
- shenandoah

- Beller's Ground Beetle
 - Puppenrauber
 - Blue Ground Beetle
 - Delta Green Ground Beetle
 - Ghost Walker Beetle
 - Schaum's Blue Ridge Ground Beetle
- I U.S.A.
E St Helena
V Europe, North Africa, U.S.S.R.
V Europe
E Italy
V U.S.A.
V Malaysia
I U.S.A.

Family Cicindelidae

- Cicindela arenicola
- Cicindela cazieri
- Cicindela chlorocephala
- smythi
- Cicindela columbica
- Cicindela dorsalis
- dorsalis
- Cicindela latesignata
- obliviosa
- Cicindela limbata
- albissima
- Cicindela marginata
- Cicindela marginipennis
- Cicindela nevadica
- olmosa
- Cicindela nigrocoerula
- subtropica
- Cicindela obsoleta
- neojuvnalis
- Cicindela puritana
- Cicindela tranquebarica
- viridissima

- Idaho Dunes Tiger Beetle
 - Cazier's Tiger Beetle
 - Smyth's Tiger Beetle
 - Columbia River Tiger Beetle
 - North-eastern Beach Tiger Beetle
 - Oblivious Tiger Beetle
 - Coral Pink Dunes Tiger Beetle
 - Tiger Beetle
 - Cobblestone Tiger Beetle
 - Los Olmos Tiger Beetle
 - Subtropical Blue-black Tiger Beetle
 - Neojuvnile Tiger Beetle
 - Puritan Tiger Beetle
 - Greenest Tiger Beetle
- I U.S.A.
I U.S.A.
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E U.S.A.
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I U.S.A.
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I U.S.A.

Family Haliplidae

- Brychius hungerfordi
- Haliphus nitens

- Hungerford's Crawling Water Beetle
 - Disjunct Crawling Water Beetle
- I U.S.A.
I U.S.A.

Family Dytiscidae

- Agabus rumpfi
- Desmopachria conchramis
- Dytiscus latissimus
- Graphoderus bilineatus
- Haideoporus texanus
- Hydroporus elusivus
- Hydroporus folkertsii
- Hydroporus hirsutus
- Hydroporus leechi
- Hydroporus simplex

- Death Valley Diving Beetle
 - Fig Seed Diving Beetle
 - Texas Cave Beetle
 - Elusive Diving Beetle
 - Folkert's Diving Beetle
 - Woolly Diving Beetle
 - Leech's Skyline Diving Beetle
 - Simple Diving Beetle
- I U.S.A.
I U.S.A.
E North & Central Europe, Siberia
E Central & West Europe
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.

Hydroporus spangleri
Hydroporus sulphurius
Hydroporus utahensis
Hygrotus artus
Hygrotus curvipes
Hygrotus diversipes
Hygrotus fontinalis
Hygrotus sylvanus

Family Gyrinidae

Spanglerogyrus albiventris

Family Hydraenidae

Gymnocthebius maureenae
Hydraena maureenae
Limnebius aridus
Limnebius texanus
Limnebius utahensis
Ochthebius crassalus
Ochthebius putnamensis
Ochthebius reticulatus

Family Leiodidae

Glacivaticola bathysciodes

Family Silphidae

Nicrophorus americanus

Family Hydrophilidae

Chaetarthria leechi
Chaetarthria utahensis
Cymbiodyta arizonica
Hydrochara rickseckeri
Paracymus seclusus

Family Lucanidae

Apterocyclus honoluluensis
Dorcus auriculatus
Dorcus ithaginis

Family Trogidae

Irox howelli

Spangler's Diving Beetle	I	U.S.A.
Sulphur Springs Diving Beetle	I	U.S.A.
Utah Diving Beetle	I	U.S.A.
Mono Lake Diving Beetle	Ex?	[U.S.A.]
Curved-foot Diving Beetle	I	U.S.A.
Narrow-foot Diving Beetle	I	U.S.A.
Travertine Band-thigh Diving Beetle	I	U.S.A.
Sylvan Diving Beetle	I	U.S.A.
Red Hills Unique Whirligig Beetle	I	U.S.A.
Maureen's Minute Moss Beetle	I	U.S.A.
Maureen's Moss Beetle	I	U.S.A.
Animas Minute Moss Beetle	I	U.S.A.
Texas Minute Moss Beetle	I	U.S.A.
Utah Minute Moss Beetle	I	U.S.A.
Wing-shoulder Minute Moss Beetle	I	U.S.A.
Indiana Minute Moss Beetle	I	U.S.A.
Wilbur Springs Minute Moss Beetle	I	U.S.A.
Blind Cave Beetle	I	U.S.A.
American Burying Beetle	E	Eastern North America
Leech's Water Scavenger Beetle	I	U.S.A.
Utah Water Scavenger Beetle	I	U.S.A.
Arizona Water Scavenger Beetle	I	U.S.A.
Ricksecker's Water Scavenger Beetle	I	U.S.A.
Seclusive Water Scavenger Beetle	I	U.S.A.
Kauai Flightless Stag Beetle	E	Hawaii
	V	New Zealand
	V	New Zealand
Caracara Commensal Scarab Beetle	V	U.S.A.

Family Buprestidae

Buprestis splendens

Goldstreifiger I Europe

Family Elmidae

Atractelmis wawona

Cylloepus parkeri

Dubiraphia brunnescens

Dubiraphia giulianii

Dubiraphia parva

Dubiraphia robusta

Heterelmis stephani

Huleechius marroni carolus

Microcylloepus browni

Optioservus browni

Optioservus canus

Optioservus phaeus

Stenelmis calida calida

Stenelmis calida moapa

Stenelmis douglasensis

Stenelmis gammoni

Zaitzeva thermae

Wawona Riffle Beetle I U.S.A.
Parker's Riffle Beetle I U.S.A.
Brownish Riffle Beetle I U.S.A.
Giuliani's Riffle Beetle I U.S.A.
Little Riffle Beetle I U.S.A.
Robust Riffle Beetle I U.S.A.
Stephan's Riffle Beetle I U.S.A.
Marron's San Carlos Riffle Beetle I U.S.A.
Brown's Riffle Beetle I U.S.A.
Brown's Riffle Beetle I U.S.A.
Pinnacles Riffle Beetle I U.S.A.
Scott Riffle Beetle I U.S.A.
Devil's Hole Warm Spring Riffle Beetle I U.S.A.
Moapa Warm Springs Riffle Beetle I U.S.A.
Douglas Riffle Beetle I U.S.A.
Gammon's Riffle Beetle I U.S.A.
Warm Spring Riffle Beetle I U.S.A.

Family Psephenidae

Acneus beeri

Acneus burnelli

Alabamabria starki

Dicranopselaphus variegatus

Psephenus arizonensis

Psephenus montanus

Beer's False Water Penny Beetle I U.S.A.
Burnell's False Water Penny Beetle I U.S.A.
Stark's False Water Penny Beetle I U.S.A.
Variegated False Water Penny Beetle I U.S.A.
Arizona Water Penny Beetle I U.S.A.
White Mountains Water Penny Beetle I U.S.A.

Family Elateridae

Amychus candezei

Amychus granulatus

Eanus hatchi

Eopenthes (17 species)

Itodacnus (whole genus)

V Chatham Is, New Zealand
V New Zealand
I Canada, U.S.A.
E Hawaii
I Hawaii

Family Eucnemidae

Paleoxenus dohmi

Dohrn's Elegant Eucnemid Beetle I U.S.A.

Family Lampyridae

Micronaspis floridana
Photuris brunnipennis floridana

Florida Intertidal Firefly I U.S.A.
Everglades Browing Firefly I U.S.A.

Family Anobiidae

Holcobius pikoensis

Piko Anobiid Beetle I Hawaii

Family Cucujidae

Cucujus cinnabarinus

Scharlachkfer E Northern & Central Europe

Family Tenebrionidae

Coelus globosus

Coelus gracilis

Polposipus herculeanus

Globose Dune Beetle I Mexico, U.S.A.
San Joaquin Dune Beetle I U.S.A.
Frigate Island Giant Tenebrionid Beetle R Seychelles

Family Meloidae

Lytta hoppingi

Lytta inseperata

Lytta mirifica

Lytta moesta

Lytta molesta

Lytta morrisoni

Hopping's Blister Beetle I U.S.A.
Mojave Desert Blister Beetle I U.S.A.
Anthony Blister Beetle I Mexico, U.S.A.
Moestan Blister Beetle I U.S.A.
Molestan Blister Beetle I U.S.A.
Morrison's Blister Beetle I U.S.A.

Family Anthicidae

Anthicus antiochensis

Anthicus sacramento

Antioch Dunes Beetle I U.S.A.
Sacramento Beetle I U.S.A.

Family Cerambycidae

Aeschrithmysus dubautianus

Aeschrithmysus swezeyi

Aeschrithmysus terryi

Cerambyx cerdo

Crossidius mojavensis mojavensis

Desmocerus californicus dimorphus

Dryobius sexnotatus

Macrodonatia cervicornis

Morimus funereus

Necydalis rudei

Nesithmysus bridwelli

Nesithmysus frobesi

Nesithmysus haasi

Nesithmysus swezeyi

Cerambyx Longicorn E Hawaii
Mojave Rabbitbrush Longhorn Beetle E Hawaii
Valley Elderberry Longhorn Beetle E Hawaii
Six-banded Longhorn Beetle V U.S.A.
I U.S.A.
K Brazil, Peru
E Central Europe, U.S.S.R.
I Hawaii
E Hawaii
E Hawaii
E Hawaii
E Hawaii
E Hawaii
Rude's Longhorn Beetle I Hawaii

[illegible]

Trigonoscuta brunnotesselata
Trigonoscuta dorothea dorothea
Trigonoscuta doyeri
Trigonoscuta rossi
Trigonoscuta yorbalindae
Unas piceus

Brown-tassel Weevil I U.S.A.
Dorothy's El Segundo Dune Weevil I U.S.A.
Doyen's Dune Weevil E/V U.S.A.
Fort Ross Weevil Ex? [U.S.A.]
Yorba Linda Weevil Ex? [U.S.A.]
V New Zealand

Order DIPTERA

Family Psychodidae

Nemopalpus nearcticus

I U.S.A.

Sugarfoot Moth Fly

Family Blephariceridae

Edwardsina gigantea
Edwardsina tasmaniensis

E Australia
E Australia

Giant Torrent Midge
Tasmanian Torrent Midge

Family Tabanidae

Apatalestea rossi
Asaphomyia floridensis
Asaphomyia texanus
Brennania belkini
Merycomyia brunnea
Stonemyia volutina

I U.S.A.
I U.S.A.
I U.S.A.
E Mexico
I U.S.A.
Ex [U.S.A.]

Ross's Apatalestes Tabanid Fly
Florida Asaphomyian Tabanid Fly
Texas Asaphomyian Tabanid Fly
Belkin's Dune Tabanid Fly
Brown Merycomyian Tabanid Fly
Volutine Stoneyian Tabanid Fly

Family Acroceridae

Eulonchus marialiciae

I U.S.A.
Mary Alice's Small-headed Fly

Family Asilidae

Cophura hurdi
Efferia antiochi
Metapogon hurdi

I U.S.A.
I U.S.A.
I U.S.A.

Antioch Robberfly
Antioch Robberfly
Hurd's Robberfly

Family Apiocertidae

Raphiomydas triochilus

I U.S.A.

Valley Mydas Fly

Family Empididae

Chersodromia hawaiiensis

I Hawaii

Hawaiian Dance Fly

Family Dolichopodidae

Campsicnemus mirabilis

Ex [Hawaii]

Family Syrphidae

Mixogaster delongi

I U.S.A.

Delong's Flower Fly

Family Asteiidae
Bryania bipunctata

Nihoa Two-spotted Asterid Fly

I

Hawaiï

Family Drosophilidae
Drosophila lanaiensis

Ex [Hawaiï]

Family Ephydridae
Paracoenia calida

Wilber Springs Shore Fly

I

U.S.A.

Order TRICHOPTERA

Family Rhyacophilidae

- Rhyacophila alexandra
- Rhyacophila amabilis
- Rhyacophila colonus
- Rhyacophila fenderi
- Rhyacophila haddocki
- Rhyacophila lineata
- Rhyacophila mosana
- Rhyacophila spinata
- Rhyacophila unpunctata

- Alexander's Caddisfly
- Castle Lake Caddisfly
- O'Brien Caddisfly
- Fender's Caddisfly
- Haddock's Caddisfly
- Castle Crags Caddisfly
- Bilobed Caddisfly
- Spiny Caddisfly
- One-spot Caddisfly

- I U.S.A.
- Ex [U.S.A.]
- I U.S.A.
- I U.S.A.
- I U.S.A.
- I U.S.A.
- I U.S.A.
- I U.S.A.
- I U.S.A.

Family Glossosomatidae

- Agapetus artesus
- Agapetus denningi
- Agapetus medicus
- Protoptila arca

- Artesian Caddisfly
- Denning's Caddisfly
- Arkansas Caddisfly
- San Marcos Caddisfly

- I U.S.A.
- I U.S.A.
- I U.S.A.
- I U.S.A.

Family Hydrotilidae

- Hydroptila decia
- Neotrichia kitae
- Ochrotrichia alsea
- Ochrotrichia contorta
- Ochrotrichia phenosa
- Ochrotrichia provosti
- Ochrotrichia vertreesi
- Oxyethira florida

- Knoxville Micro Caddisfly
- Kite's Micro Caddisfly
- Alsea Micro Caddisfly
- Contorted Micro Caddisfly
- Deschutes Micro Caddisfly
- Provost's Micro Caddisfly
- Vertree's Micro Caddisfly
- Florida Micro Caddisfly

- I U.S.A.
- I U.S.A.
- I U.S.A.
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- I U.S.A.
- I U.S.A.
- I U.S.A.

Family Philopotamidae

- Apatania tavalae
- Cryptochia excella
- Cryptochia neosa

- Cascades Caddisfly
- Kings Canyon Caddisfly
- Blue Mountains Caddisfly

- I U.S.A.
- I U.S.A.
- I U.S.A.

Dolophilodes oregona
Ecclisomyia bilera
Farula davis
Farula jewetti
Farula reaperi
Glyphopsyche missouri
Limnephilus alconura
Limnephilus atercus
Neothrauma andersoni
Oligophlebodes mostbento
Philocasca oron
Triænodes tridonata

Oregon Caddisfly
King's Creek Caddisfly
Green Springs Mountain Caddisfly
Mount Hood Caddisfly
Tombstone Prairie Caddisfly
Missouri Caddisfly
Klamath Caddisfly
Fort Dick Caddisfly
Colombian Gorge Caddisfly
Tombstone Prairie Oligophlebodes
Clatsop Caddisfly
Three-tooth Caddisfly

I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
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I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
Ex [U.S.A.]

Family Lepidostomatidae

Lepidostoma fischeri
Lepidostoma goedeni

Fischer's Caddisfly
Goeden's Caddisfly

I U.S.A.
I U.S.A.

Family Sericostomatidae

Agarodes ziczac

Zigzag Blackwater Caddisfly

I U.S.A.

Family Odontoceridae

Psilotreta hanson

I U.S.A.

Family Leptoceridae

Ceraclea floridana
Ceraclea vertreesi
Oecetis parva
Triænodes phalacris

Florida Longhorn Caddisfly
Vertree's Caddisfly
Little Longhorn Caddisfly
Athens Caddisfly

I U.S.A.
I U.S.A.
I U.S.A.
Ex [U.S.A.]

Order LEPIDOPTERA

Family Hepialidae

Leto venus
Zelotypia stacyi

Silver Spotted Ghost Moth
Bent Wing Swift Moth

V South Africa
V Australia

Family Nepticulidae

Ectodemia castaneae
Ectodemia phleophaga

American Chestnut Moth
Phleophagan Chestnut Moth

Ex? [U.S.A.]
Ex? [U.S.A.]

Family Tischeriidae

Tischeria perplexa

Chestnut Clearwing Moth

Ex? [U.S.A.]

Family Gracillariidae

Petrochroa neckerensis
Phildoria wilkesiella

Necker Leaf-miner Moth

I Hawaii
E Hawaii

Family Coleophoridae

Coleophora leucochrysell

Ex? [U.S.A.]

Family Gelechiidae

Kiwaia jeanae

V New Zealand

Family Carposinidae

Heterocrossa viridis

Green Carposinid Moth

I Hawaii

Family Argyresthiidae

Argyresthia castaneella

Chestnut Ermine Moth

Ex? [U.S.A.]

Family Sesiidae

Synanthedon castaneae

Chestnut Clearwing Moth

I U.S.A.

Family Tortricidae

Grapholitha edwardsiana
Spheterista ohoeheana
Spheterista pterotropiana
Spheterista reynoldsi

San Francisco Tree Lupine
Ohe Ohe Leaf-roller Moth
Green-banded Ohe Ohe Leaf-roller Moth
Wallupe Leaf-roller Moth

R U.S.A.
I Hawaii
I Hawaii
I Hawaii

Family Cochyliidae

Carotella busckana

Busk's Gall Moth

I U.S.A.

Family Hesperidae

Carterocephalus palaemon
Dalla octomaculata
Epargyreus antaeus
Epargyreus spana
Euscheman rafflesia
Hesperia dacotae
Hesperia pawnee montana
Kedestes barerae bunta
Kedestes chaca
Metisella syninx
Panoquina errans
Panoquina panoquinoides errans
Problema buienta

Chequered Skipper
Eight Spotted Skipper

Skipper
Dakota Skipper
Pawnee Montane Skipper
Barber's Ranger

Bamboo Sylph
Wandering Skipper
Salt Marsh Skipper
Rare Skipper

V Central & North Europe
R Costa Rica, Panama
R Jamaica
R Dominican Republic
K Australia
E U.S.A., Canada
E U.S.A.
V South Africa
V South Africa
V U.S.A., Mexico
V U.S.A., Mexico
I U.S.A.

Pseudocopaodes eunus eunus
Syrichthus cribrellum
Syrichthus tessellum
Tsitana dicksoni

Wandering Skipper
Spinose Skipper
Tessellated Skipper
Dickson's Sylph

I U.S.A.
I Romania, Southern U.S.S.R.
K Balkans, Southern U.S.S.R., Iran
V South Africa

Family Megathymidae

Stallingsia maculosus

Maculated Manfreda Skipper

I U.S.A.

Family Papilionidae

Atrophaneura atropos
Atrophaneura jophon
Atrophaneura lucti
Atrophaneura palu
Atrophaneura schadenbergi
Baronia brevicornis
Battus zetides
Bhutanitis ludlowi
Bhutanitis mansfieldi
Bhutanitis thaidina
Eurytides iphitas
Eurytides lysithous harrisianus

Sri Lankan Rose

Short-horned Baronia
Zetides Swallowtail
Ludlow's Bhutan Swallowtail
Mansfield's Three-tailed Swallowtail
Chinese Three-tailed Swallowtail
Yellow Kite Swallowtail
Harris' Mimic Swallowtail
Jamaican Kite

I Philippines
V Sri Lanka
R Java
K Sulawesi
V Philippines
R Mexico
V Hispaniola
K Bhutan
R China
R China
V Brazil
E Brazil
V Jamaica
R Taiwan
V Sri Lanka
K Zaire

Eurytides marcellinus
Graphium alebion chungianus
Graphium antiphates ceylonicus
Graphium aurivilliusi
Graphium epaminondas
Graphium idaeoides
Graphium levassori
Graphium meeki
Graphium megaera
Graphium mendana
Graphium procles
Graphium sandawanum
Graphium stresemanni
Luehdorfia chinensis
Luehdorfia japonica
Ornithoptera aesacus
Ornithoptera alexandrae
Ornithoptera chimaera
Ornithoptera croesus
Ornithoptera meridionalis
Ornithoptera paradisea

Sri Lankan Five-bar Swordtail

Andamans Swordtail

Meek's Graphium

Chinese Luehdorfia
Japanese Luehdorfia

Queen Alexandra's Birdwing
Chimaera Birdwing

Paradise Birdwing

K Andaman Is
K Philippines
V Comoro Is
R Bougainville, Solomon Is
I Philippines
R Bougainville, Solomon Is
I Sabah
V Philippines
R Moluccas
K China
I Japan, Taiwan
I Moluccas
E Papua New Guinea
I New Guinea
V Moluccas
V New Guinea
I New Guinea

Ornithoptera rothschildi
 Ornithoptera tithonus
 Papilio acheron
 Papilio antimachus
 Papilio aristodemus ponceanus
 Papilio aristophontes
 Papilio aristor
 Papilio benquetanus
 Papilio caiguanabus
 Papilio carolinensis
 Papilio chikae
 Papilio desmondi teita
 Papilio esperanza
 Papilio garleppi
 Papilio groesmithi
 Papilio himeros
 Papilio homerus
 Papilio hospiton
 Papilio jordani
 Papilio leucotaenia
 Papilio mangoura
 Papilio manlius
 Papilio maraho
 Papilio maroni
 Papilio moeneri
 Papilio morondavana
 Papilio neuwoegeni
 Papilio osmana
 Papilio phorbanta
 Papilio phorbanta nana
 Papilio sjoestedti
 Papilio toboroi
 Papilio weymeri
 Parides ascanius
 Parides burchellanus
 Parides coelus
 Parides hahneli
 Parides klagesi
 Parides pizarro
 Parides steinbachi
 Parnassius apollo
 Parnassius apollo vinningensis
 Parnassius autocrator

Rothschild's Birdwing
 African Giant Swallowtail
 Schaus' Swallowtail
 Scarce Haitian Swallowtail
 Poey's Black Swallowtail
 Taita Blue-banded Papilio
 Homerus Swallowtail
 Corsican Swallowtail
 Jordan's Swallowtail
 Cream-banded Swallowtail
 Madagascan Emperor Swallowtail
 Papillon La Pature
 Kilimanjaro Swallowtail
 Fluminense Swallowtail
 Hahnel's Amazonian Swallowtail
 Apollo

I Irian Jaya
 K Irian Jaya
 R Sabah, Sarawak
 R Central & West Africa
 E U.S.A.
 I Comoro Is
 I Hispaniola
 V Philippines
 I Cuba
 V Philippines
 E Philippines
 E Kenya
 V Mexico
 K South America
 R Madagascar
 V Argentina, Brazil
 E Jamaica
 E Corsica, Sardinia
 R Sulawesi
 V Burundi, Rwanda, Uganda
 R Madagascar
 I Mauritius
 V Taiwan
 K French Guiana
 V Bismarck Arch.
 V Madagascar
 V Lesser Sunda Is
 V Philippines
 V Reunion
 Ex [Seychelles]
 R Tanzania
 R Bougainville, Solomon Is
 R Bismarck Arch.
 V Brazil
 V Brazil
 K French Guiana
 R Brazil
 K Venezuela
 K Brazil
 K Bolivia
 R Europe & U.S.S.R. to China
 E F.R.G.
 R Afghanistan, Tadzhikistan

<u>Parnassius clodius shepardii</u>	Shepard's Clodius Parnassian	I	U.S.A.
<u>Parnassius clodius strohbeeni</u>	Strohbeen's Clodius Parnassian	Ex	[U.S.A.]
<u>Ieinopalpus aureus</u>	Golden Kaiser-I-Hind	K	China
<u>Ieinopalpus imperialis</u>	Kaiser-I-Hind	R	India to China
<u>Troides aeacus kaguya</u>		E	Taiwan
<u>Troides andromache</u>		I	Sabah, Sarawak
<u>Troides dohertyi</u>		V	Sulawesi
<u>Troides prattorum</u>	Talaud Black Birdwing	I	Moluccas

Family Pieridae

<u>Artogeia virginienensis</u>	West Virginia White	I	Canada, U.S.A.
<u>Belenois orgygia</u>		E	South Africa
<u>Euchloe hyantis andrewsi</u>	Andrew's Marble Butterfly	I	U.S.A.
<u>Mylothris carcassoni</u>		R	Zimbabwe
<u>Pieris krueperi devta</u>		R	India

Family Lycaenidae

<u>Alaena margaritacea</u>		V	South Africa
<u>Aloeides caledoni</u>		V	South Africa
<u>Aloeides dentatis</u>		R	South Africa
<u>Aloeides egerides</u>		V	South Africa
<u>Aloeides lutescens</u>		V	South Africa
<u>Argyrocupha malagrida malagrida</u>	Lion's Head Copper	V	South Africa
<u>Argyrocupha malagrida paarlensis</u>	Lion's Head Copper	V	South Africa
<u>Callophrys mossii bayensis</u>	San Bruno Elfin	E	U.S.A.
<u>Capys penningtoni</u>		E	South Africa
<u>Chrysoritis cotrelli</u>		I	South Africa
<u>Chrysoritis oreas</u>		I	South Africa
<u>Chrysoritis zeuxo</u>		I	South Africa
<u>Cyclyrus mandersi</u>		I	South Africa
<u>Deloneura immaculata</u>		I	Mauritius
<u>Deloneura millari millari</u>		Ex?	[South Africa]
<u>Deudorix penningtoni</u>		V	South Africa
<u>Deudorix vansonii</u>		V	South Africa
<u>Durbania limbata</u>		V	South Africa
<u>Erikssonia acraeina</u>		V	South Africa
<u>Eumaeus atala florida</u>	Florida Atala Hairstreak	V	U.S.A.
<u>Evers comyntas texanus</u>	Texas Tailed Blue	Ex	[U.S.A.]
<u>Glaucopsyche lygdamus palosverdesensis</u>	Palos Verdes Blue	Ex?	[U.S.A.]
<u>Glaucopsyche xerces</u>	Xerces Blue	Ex	[U.S.A.]
<u>Hemiargus thomasi bethune-bakeri</u>	Miami Blue Butterfly	I	U.S.A.
<u>Icaricia icarioides missionensis</u>	Mission Blue	E	U.S.A.

Shiimiaeoides rita mattonii
Spindasis collinsi
Strymon acis bartrami
Strymon avalona
Thestor dicksoni dicksoni
Thestor kaplani
Thestor tempe
Trimenia wallengrenii
Uranothauma usambarae

Mattoni's Blue

Bartram's Hairstreak
Avalon Hairstreak
Dickson's Thestor
Kaplan's Thestor

Wallengren's Copper

I U.S.A.
V Tanzania
I U.S.A.
K U.S.A.
V South Africa
V South Africa
V South Africa
V South Africa
V Tanzania

Family Libytheidae

Libythea cinyras

Ex [Mauritius]

Family Danaidae (or Nymphalidae: Danainae)

Amauris comorana
Amauris nossima
Amauris pheodora
Anetia briarea
Anetia cubana
Anetia jaegeri
Anetia pantheratus
Danaus cleophile
Euploea albicosta
Euploea blossoniae
Euploea caespes
Euploea configurata
Euploea cordelia
Euploea dentiplaga
Euploea doretta
Euploea eboraci
Euploea eupator
Euploea euphon
Euploea gamelia
Euploea lacon
Euploea latifasciata
Euploea magou
Euploea martinii
Euploea mitra
Euploea tobleri
Euploea tripunctata
Idea electra
Idea iasonia
Idea malabarica

R Comoro Is
R Comoro Is, Madagascar
R Mauritius
R Cuba, Hispaniola
R Cuba
R Hispaniola
R Cuba, Hispaniola
K Hispaniola, Jamaica
R Irian Jaya
R Philippines
R Indonesia
R Sulawesi
R Sulawesi
R Indonesia
R Bismarck Arch.
R Bismarck Arch.
R Sulawesi
R Mauritius, Reunion, Rodrigues
R Java
R Bismarck Arch.
R Sulawesi
R Sulawesi
R Sumatra
R Seychelles
R Philippines
R Irian Jaya
R Philippines
R Sri Lanka
R India

Idea tambusiana		Sulawesi
Ideopsis hewitsonii	R	Irian Jaya
Ideopsis klassika	R	Indonesia
Ideopsis oberthurii	R	Indonesia
Parantica albata	R	Java, Sumatra
Parantica clinias	R	Bismarck Arch.
Parantica crowleyi	R	Borneo
Parantica dannatti	R	Philippines
Parantica davidi	E	Philippines
Parantica garamantis	R	Bougainville, Solomon Is
Parantica kirbyi	K	New Guinea
Parantica kuekenthali	R	Sulawesi
Parantica marcia	R	Irian Jaya
Parantica menadensis	R	Sulawesi
Parantica milagros	R	Philippines
Parantica nilgiriensis	R	India
Parantica philo	R	Indonesia
Parantica phyle	R	Philippines
Parantica pseudomelaneus	R	Java
Parantica pumila	R	New Caledonia
Parantica rotundata	R	Bismarck Arch.
Parantica schoenigi	R	Philippines
Parantica sulewattan	R	Sulawesi
Parantica taprobana	R	Sri Lanka
Parantica tietyoides	R	Sumatra
Parantica toxopei	R	Sulawesi
Parantica wegneri	R	Indonesia
Parantica weiskei	R	New Guinea
Protoploea apatela	R	New Guinea
Tiradelphe schneideri	R	Solomon Is
Tirumala euploeomorpha	R	Solomon Is
Tirumala gautama	R	Indochina, China, Malaysia

Family Satyridae (or Nymphalidae: Satyrinae)

Coenonympha oedippus
Erebria annada annada
Erebria christi
Erebria gorgone
Erebria narasingha narasingha
Erebria ottomana
Erebria scipio
Erebria sthenyo

<u>Erebia sudetica</u>					
<u>Lethe distans</u>		Sudeten Ringlet		V	Europe
<u>Lethe dura gammiei</u>		Scarce Red Forester		R	Burma, India
<u>Lethe europa tamuna</u>				R	Bhutan, India
<u>Lethe gemina gafuri</u>				R	India
<u>Lethe margaritae</u>				R	India
<u>Lethe ocellata lyncus</u>				R	Bhutan, India
<u>Lethe ramadeva</u>				R	Bhutan, India
<u>Lethe satyavati</u>				R	Bhutan, Burma, India
<u>Pararge menava maeroides</u>				R	India
<u>Stygionympha dicksoni</u>		Dickson's Brown		V	South Africa
<u>Ypthima dohertyi persimilis</u>				R	Burma, India

Family Nymphalidae (or Nymphalidae: Nymphalinae)
Florida Leafwing

<u>Anaea floridalis</u>				I	U.S.A.
<u>Antanartia borbonica</u>				I	Madagascar, Mauritius, Reunion
<u>Antanartia borbonica mauritiana</u>				E	Mauritius
<u>Apaturopsis kilusa</u>				R	Madagascar
<u>Apaturopsis pauliani</u>				R	Madagascar
<u>Apodemia mormo langei</u>				E	U.S.A.
<u>Boloria acrocnemata</u>				V	U.S.A.
<u>Cercyonis sthenele sthenele</u>		Lange's Metalmark		Ex	[U.S.A.]
<u>Charaxes cowani</u>		Uncompahgre Fritillary Butterfly		R	Madagascar
<u>Charaxes druceanus entabeni</u>		Sthenele Wood Nymph		V	South Africa
<u>Charaxes druceanus williamsi</u>				I	Kenya
<u>Charaxes durnfordi nicholi</u>		Silver Barred Charaxes		R	Burma, India
<u>Charaxes karkloof capensis</u>		Chestnut Rajah		V	South Africa
<u>Charaxes marieps</u>				V	South Africa
<u>Charaxes usambarae</u>				V	Tanzania
<u>Charaxes xiphares desmondi</u>				V	Kenya
<u>Charaxes xiphares xiphares</u>				V	South Africa
<u>Cymothoe alcimeda alcimeda</u>		Western Forest Emperor		V	South Africa
<u>Cymothoe amaniensis</u>		Battling Glider		V	Tanzania
<u>Cymothoe aurivillii</u>				R	Tanzania
<u>Cymothoe magimbae</u>				V	Tanzania
<u>Cymothoe melanjae</u>				R	Malawi
<u>Cymothoe teita</u>				V	Kenya
<u>Dolichallia bisaltide andamana</u>		Andaman Leafwing		R	Andaman Is
<u>Euphydryas editha bayensis</u>		Bay Checkerspot Butterfly		E	U.S.A.
<u>Euphydryas editha monoensis</u>		Mono Checkerspot Butterfly		I	U.S.A.
<u>Euryphura achlys</u>		Mottled Green		I	East & South Africa
<u>Euthalia malapana</u>				Ex	[Taiwan]
<u>Euxanthe madagascariensis</u>				R	Madagascar

<u>Fabriciana elisa</u>	Corsican Fritillary	V	France, Italy
<u>Heliconius charltonius peruvianus</u>		V	Ecuador, Peru
<u>Heliconius nattereri</u>	Natterer's Longwing	E	Brazil
<u>Hypodryas maturna</u>	Scarce Fritillary	E	Europe
<u>Hypolimnas antevorta</u>		V	Tanzania
<u>Hypolimnas dubius drucei</u>		I	Comoro Is, Madagascar, Mauritius
<u>Neptis decaryi</u>		R	Madagascar
<u>Neptis manasa</u>		R	China, India, Sikkim
<u>Neptis metella gratilla</u>	Pale Hockeysticker Sailer	R	Madagascar
<u>Neptis nyctea</u>		R	Sikkim
<u>Neptis sankara nar</u>		R	Andaman Is
<u>Neptis sextilla</u>		I	Madagascar
<u>Phalanta philiberti</u>		E	Seychelles
<u>Phyciodes batesi</u>		I	U.S.A.
<u>Salamis angustina</u>	Tawny Crescent Butterfly	I	Madagascar, Mauritius
<u>Salamis angustina angustina</u>	Salamis Retrecie	I	Madagascar, Reunion
<u>Salamis angustina vinsoni</u>	Salamis Retrecie	Ex	[Mauritius]
<u>Sasakia charonda</u>		I	Japan, Taiwan
<u>Satyroides eurydice fumosa</u>		I	U.S.A.
<u>Smerina manoro</u>	Smokey Eyed Brown Butterfly	R	Madagascar
<u>Speyeria adiaeste atossa</u>		Ex	[U.S.A.]
<u>Speyeria callippe callippe</u>	Atossa	I	U.S.A.
<u>Speyeria hydaspe conquista</u>	Callippe Silverspot	I	U.S.A.
<u>Speyeria idalia</u>	Silverspot	I	U.S.A.
<u>Speyeria nokomis caerulescens</u>	Regal Fritillary	I	Canada, U.S.A.
<u>Speyeria nokomis nokomis</u>	Blue Silverspot	I	U.S.A.
<u>Speyeria zerene behrensi</u>	Great Basin Silverspot	I	U.S.A.
<u>Speyeria zerene hippolyta</u>	Behren's Silverspot	I	U.S.A.
<u>Speyeria zerene myrtleae</u>	Oregon Silverspot	V	U.S.A.
	Myrtle's Fritillary	R	U.S.A.
Family Acraeidae			
<u>Acraea hova</u>		R	Madagascar
<u>Acraea sambavae</u>		R	Madagascar
Family Pyralidae			
<u>Hedylepta (14 species)</u>		T*	Hawaii
<u>Kupea electilis</u>	Hedyleptan Moths	V	New Zealand
<u>Margaronia cyanomichla</u>		I	Hawaii
<u>Margaronia exaula</u>	Blue Margaronian	I	Hawaii
<u>Oeblia dryadopa</u>	Green Margaronian	I	Hawaii
	Ohepaupaka Oeobian Moth	I	Hawaii

Family Geometridae

Fletcherana ioxantha
Gnophos obscurata
Scotorythra megalophylla
Scotorythra nesiotis
Scotorythra paratactis
Iritocleis microphylla

Ioxantha Looper Moth
 Kona Giant Looper Moth
 Ko'olau Giant Looper Moth
 Hawaiian Hopseed Looper Moth
 Ola'a Peppered Looper Moth

I Hawaii
 K Austria
 Ex? [Hawaii]
 Ex? [Hawaii]
 Ex? [Hawaii]
 Ex? [Hawaii]

Family Lasiocampidae

Eriogaster catax
Phylloidesma ilicifolia

E Austria, Belgium, F.R.G., Hungary
 V Central & North Europe to Japan

Family Saturniidae

Graellsia isabelae
Saturnia pyri

V France, Spain
 E Austria, Czechoslovakia, F.R.G.

Family Sphingidae

Celerio wilsoni perkinsi
Euproserpinus euterpe
Euproserpinus wiesti
Hyles hippophaes
Manduca blackburni
Proserpinus proserpina
Tinostoma smaragditis

E Hawaii
 V U.S.A.
 E U.S.A.
 V Europe & U.S.S.R.
 Ex? [Hawaii]
 V Central & South Europe, Middle East
 Ex? [Hawaii]

Family Noctuidae

Acronicta albarufa
Agrotis crinigera
Agrotis fasciata
Agrotis kerri
Agrotis laysanensis
Agrotis photophila
Agrotis procellaris
Catocala marmorata
Catocala pretiosa
Erythrocia hebaridi
Helicoverpa confusa
Helicoverpa minuta
Hydraecia petasitis
Hypena laysanensis
Hypena neweili
Hypena plagiota

Albarufan Dagger Moth
 Poko Noctuid Moth
 Midway Noctuid Moth
 Kerr's Noctuid Moth
 Laysan Noctuid Moth
 Procellaris grotis Noctuid Moth
 Marbled Underwing Moth
 Precious Underwing Moth
 Hebard's Noctuid Moth
 Confused Moth
 Minute Noctuid Moth
 Laysan Dropseed Noctuid Moth
 Hilo Noctuid Moth
 Lovegrass Noctuid Moth

I Canada, U.S.A.
 Ex? [Hawaii]
 Ex [Hawaii]
 Ex? [Hawaii]
 Ex [Hawaii]
 Ex [Hawaii]
 Ex [Hawaii]
 I U.S.A.
 I U.S.A.
 I U.S.A.
 Ex? [Hawaii]
 Ex [Hawaii]
 E Austria, F.R.G.
 Ex [Hawaii]
 Ex? [Hawaii]
 Ex? [Hawaii]

Hypena senicula
Lithophane lemmeri
Peridroma porphyrea
Pyreferra ceromatica

Order HYMENOPTERA

Family Eupelmidae

Eupelmus nihoaensis

Family Bethyilidae

Sclerodermus nihoaensis

Family Mutillidae

Myrmosula pacifica

Family Formicidae

Anergates atratulus
Aneuretus simoni
Aulacopone relicta
Camponotus aethiops
Camponotus dalmaticus
Camponotus fallax
Camponotus universitatis
Epimyrma goesswaldi
Epimyrma ravouxi
Formica aquilonia
Formica lugubris
Formica polyctena
Formica pratensis
Formica rufa
Formica transcaucasica
Formica uralensis
Leptothorax goesswaldi
Myrmica bibikoffi
Myrmica slovaca
Nothomyrmecia macrops
Polyergus rufescens

Family Vespidae

Odynerus niihauensis
Odynerus soror

Kaholuamano Noctuid Moth	Ex?	[Hawaii]
Lemmer's Noctuid Moth	I	U.S.A.
	Ex	[Hawaii]
Ceromatic Noctuid Moth	I	Canada, U.S.A.
Nihoa Eupelmus Wasp	I	Hawaii
Nihoa Sclerodermus Wasp	I	Hawaii
Antioch Mutillid Wasp	I	U.S.A.
Sri Lankan Relict Ant	I	F.R.G., Switzerland, U.K.
Caucasian Relict Ant	K	Sri Lanka
	K	Azerbaijdzhan
	I	F.R.G.
	I	Switzerland
	I	F.R.G.
	I	F.R.G., France
	I	Europe
Ravoux's Slavemaker Ant	R	Central & Southern Europe
	V	F.R.G.
	V	F.R.G., Italy
	V	F.R.G., Italy
	V	U.K.
	V	Central Europe
Red Wood Ant	I	Northern Europe
Black Bog Ant	I	F.R.G., Switzerland
Goesswald's Inquiline Ant	K	Switzerland
	I	Switzerland
	I	Switzerland
	K	Australia
	I	F.R.G.
Australian Ant		
Niihau Vespid Wasp	E	Hawaii
Soror Vespid Wasp	E	Hawaii

Family Sphecidae

- Deinomimesa hawaiiensis
- Deinomimesa punae
- Ectemnius curtipes
- Ectemnius fulvicrus
- Ectemnius giffardi
- Ectemnius haleakalae
- Ectemnius nesocrabo bidecoratus
- Eucerceris ruficeps
- Nesomimesa kauaiensis
- Nesomimesa perkins
- Nesomimesa sciopteryx
- Philanthus nasalis

- Hawaiian Sphecid Wasp
- Puna Sphecid Wasp
- Short-foot Sphecid Wasp
- Brown Cross Sphecid Wasp
- Giffard's Sphecid Wasp
- Haleakala Sphecid Wasp
- Bidecoratus Sphecid Wasp
- Redheaded Sphecid Wasp
- Kauai Sphecid Wasp
- Shade-winged Sphecid Wasp
- Antioch Sphecid Wasp

- E Hawaii
- E Hawaii
- E Hawaii
- E Hawaii
- E Hawaii
- E Hawaii
- I U.S.A.
- E Hawaii
- E Hawaii
- E Hawaii
- I U.S.A.

Family Colletidae

Nesoprotopis (57 species)

Hawaii

Family Andrenidae

- Perdita hirticeps luteocincta
- Perdita scitula antiochensis

- Yellow Banded Andrenid Bee
- Antioch Andrenid Bee

- I U.S.A.
- I U.S.A.

Family Megachilidae

Chalicodoma pluto

- Wallace's Giant Bee

Moluccas

CLASS ONYCHOPHORA

Order ONYCHOPHORA

Family Peripatidae

Family Peripatosidae

- Peripatus (10 genera)
- Peripatus (12 genera)

- V Equatorial Tropics
- V Southern Hemisphere

CLASS ECHINOIDA

Order ECHINOIDA

Family Echinidae

- Echinus esculentus
- Paracentrotus lividus

- European Edible Sea Urchin
- Purple Urchin

- K
- CT

- North-east Atlantic
- North-east Atlantic, Mediterranean

Phylum ECHINODERMATA

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